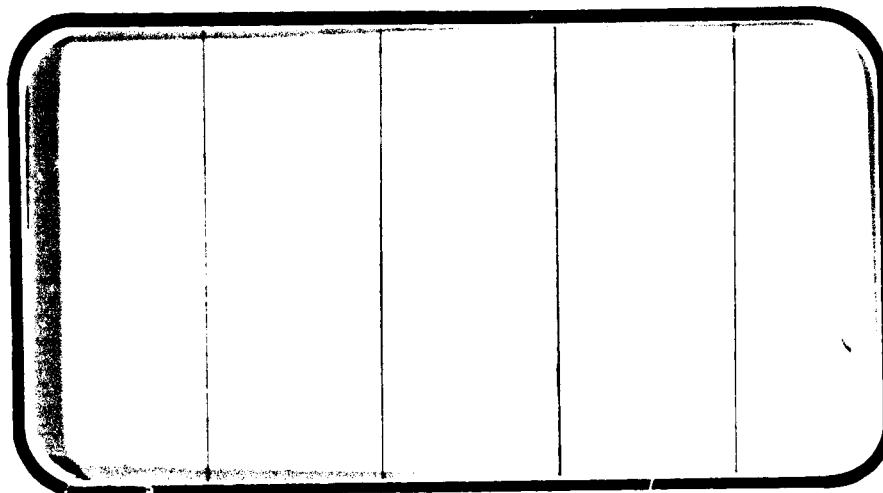


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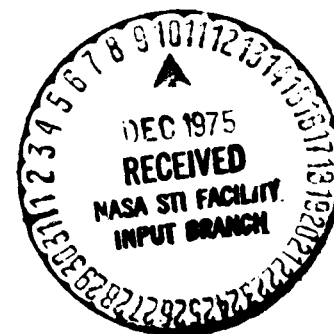
(NASA-CF-141806) RESULTS OF EXPERIMENTAL
TESTS IN THE MSFC 14 X 14 INCH TRISCNIC WIND
TUNNEL ON A .004 SCALE MODEL SPACE SHUTTLE
INTEGRATED VEHICLE 5 (MODEL 77-0, 74-1S) TO
RELIEVE WING LOADS DURING ASCENT (IA71)

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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA Management services

SPACE DIVISION



**CHRYSLER
CORPORATION**

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RESULTS OF EXPERIMENTAL TESTS IN THE
MSFC 14 x 14 INCH TRISONIC WIND TUNNEL
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INTEGRATED VEHICLE 5 (MODEL 77-0, 74-TS)
TO RELIEVE WING LOADS DURING ASCENT (IA71)

by

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Southern Region Office
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Prepared under NASA Contract Number NAS9-13247

by

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Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: MSFC TWT 610
NASA Series Number: IA71
Model Numbers: 77-0, 74-OTS
Test Dates: December 10-17, 1974
Occupancy Hours: 43

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Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

RESULTS OF EXPERIMENTAL TESTS IN THE
MSFC 14 x 14 INCH TRISONIC WIND TUNNEL
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ABSTRACT

This report presents results from wind tunnel test (IA71) on the 0.004-scale orbiter, external tank, and solid rocket boosters combined as an integrated vehicle (models 77-O, 74-TS and 74-OTS) in the MSFC Trisonic Wind Tunnel at Mach numbers from 0.6 to 2.0.

The primary test objective was to determine the effectiveness of several methods in relieving the Orbiter wing bending and torsion loads and moments during launch. Effects of several midwing spoilers, termed flipper doors, and Orbiter/ET incidence were investigated.

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COEFFICIENT SCHEDULE:

- (A) CHEO, CHEI vs. MACH
- (B) CHEO, CHEI vs. BETA
- (C) CNW, CBW, CTW vs. MACH
- (D) CA vs. MACH

NOMENCLATURE

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
A_{b_e}		tank base area, in. ²
A_{b_o}		orbiter base area, in. ²
A_{b_s}		SRB base area, in. ²
b_{ref}	BREF	reference span, in.
\bar{c}		mean aerodynamic chord, in.
c.g.		center of gravity
CAB_E	CABE	tank base axial force coefficient, $-CPB_E A_{b_e}/S_{ref}$
CAB_O	CABO	orbiter base axial force component coefficient, $-CPB_O A_{b_o}/S_{ref}$
CAB_F	CABF	body flap axial force coefficient, $-CPBBF \sin \delta_{bf} S_{bf_{ref}}/S_{ref}$. Note that $CABF = 0$ for undeflected body flap
CAB_S	CABS	SRB base axial force coefficient, $-CPB_S A_{b_s}/S_{ref}$
C_{A_f}	CAF	forebody axial force coefficient, $CA - CABO - CABS - CABE$
C_A	CA	total axial force coefficient, axial force/ qS_{ref}
C_{B_w}	CBw	wing root bending moment coefficient, wing root bending moment/ $qS_{ref} b_{ref}$
C_ℓ	CBL	rolling moment coefficient in body axis system, rolling moment/ $qS_{ref} l_{ref}$
$C_{h_{eo}}$	CHEO	outboard elevon hinge moment coefficient, (see page 18)

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
C_m	CLM	pitching moment coefficient corrected for base pressure measurements on the orbiter base, and body flap (see page 16)
C_{mU}	CLMU	pitching moment coefficient uncorrected for measured base and body flap pressures, pitching moment/ $qS_{ref}l_{ref}$
C_n	CYN	yawing moment coefficient in the body axis system, yawing moment/ $qS_{ref}l_{ref}$
C_N	CN	normal force coefficient in the body axis system corrected for measured base and body flap pressures, $CNU - CNBO - CNBF$
C_{NU}	CNU	uncorrected normal force coefficient, normal force/ qS_{ref}
$CNBO$	CNBO	normal force component coefficient of orbiter base drag, $-CPBO A_{bO} \tan i_b / S_{ref}$
CN_{BF}	CNBF	body flap normal force coefficient, $-CPBBF \cos \delta_{bf} S_{bf_{ref}} / S_{ref}$
C_{NW}	CNW	wing normal force coefficient, wing normal force/ qS_{ref}
CPB_{BF}	CPBBF	body flap base pressure coefficient, $\Delta P_{BF} / q$
CPB_E	CPBE	tank base pressure coefficient, $\Delta P_{BE} / q$
CPB_O	CPBO	orbiter base pressure coefficient, $\Delta P_{BO} / q$
CPB_{BS}	CPBS	SRB base pressure coefficient, $\Delta P_{BS} / q$
C_Y	CY	side force coefficient (body or stability axis system), side force/ qS_{ref}
C_{hei}	CHEI	inboard elevon hinge moment coefficient, (see page 19)

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
C_{TW}	CTW	wing torsion moment coefficient, wing torsion moment/ $qS_{ref}\bar{c}$
F_A		axial force, lb.
F_N		normal force, lb.
F_{NW}		wing normal force, lb.
F_Y		side force, lb.
i_b		orbiter, base slant angle
i_o		orbiter/ET incidence angle
l_{ref}	LREF	reference length, in.
M	MACH	Mach number
MRP	MRP	moment reference point
	XMRP	moment reference point on x-axis, in.
	YMRP	moment reference point on y-axis, in.
	ZMRP	moment reference point on z-axis, in.
M_{BW}		wing bending moment, in.-lb.
M_{TW}		wing torsion moment, in.-lb.
M_x		rolling moment in the body axis system, in.-lb.
M_y		pitching moment in the body (or stability) axis system, in.-lb.
M_z		yawing moment in the body axis system, in.-lb.

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
P_{∞}		freestream static pressure, psi
$P_{b_{bf}}$		body flap base pressure, psi
P_{b_e}		tank base pressure, psi
P_{b_o}		orbiter base pressure, psi
P_{b_s}		SRB base pressure, psi
P_t		total pressure, psi
q	Q(PSI)	dynamic pressure, psi
RN/L	RN/L	Reynolds number per foot, multiplied by 10^{-6} for display
S_{ref}	REFS	reference area, in. ²
$S_{bf_{ref}}$	BFREFS	body flap reference area, in. ²
T		temperature, °F
X_o		orbiter longitudinal station, in.
Y_o		orbiter lateral station, in.
Z_o		orbiter vertical station, in.
GREEK SYMBOLS		
α	ALPHA	angle-of-attack, angle between the projection of the wind X_w -axis on the body X, Z-plane and the body X-axis; deg.

NOMENCLATURE (Concluded)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
β	BETA	sideslip angle - angle between the wind X_w -axis and the projection of this axis on the body X, z-plane; deg.
ΔP_{BO}		differential orbiter base pressure, psi; $P_{BO} - P_\infty$
ΔP_{BE}		differential external tank base pressure, psi; $P_{BE} - P_\infty$
$\Delta P_{B_{BF}}$		differential pressure measured at upper surface of body flap, psi; $P_{b_{bf}} - P_\infty$
δ		control surface deflection angle, deg. positive deflections are:
δ_A	AILRON	aileron - port aileron trailing edge down
δ_E	ELEVTR	elevator - trailing edge down
δ_{BF}	BDFLAP	body flap - trailing edge down
δ_{SB}	SPDBRK	speed brake
δ_R	RUDDER	rudder - trailing edge left
δ_{FD}	FLIPD	elevon flipper door deflection

SUBSCRIPTS

b_e	tank base
b_f	body flap
b_o	orbiter base
b_s	solid rocket booster base
t	total conditions
w	wind
ref	reference conditions
∞	free stream conditions

INTRODUCTION

During the ascent portion of the Space Shuttle flight, while the vehicle is in the earth's atmosphere, the three shuttle components, (i.e., Orbiter (O), External Tank (ET), and Solid Rocket Booster (SRB)) are joined together. Severe cross flows and shock patterns occur within this integrated vehicle to cause high Orbiter wing loadings. Experimental investigations were undertaken in the MSFC 14 x 14 inch Trisonic Wind Tunnel utilizing a .004 scale model to determine methods which could be used to relieve the high wing loads. Several mid-wing spoilers, termed flipper doors, as well as O/ET incidence were studied during this test. Two Orbiter models were utilized to obtain data. A styrcast Orbiter (model 77-O) with a balance mounted in the wing was used to measure individual wing loads. A stainless steel Orbiter (model 74-O) with individual inboard and outboard elevon hinge moment gages was utilized to measure the control surface forces. The External Tank (model 74-T) and SRB (model 74-S) were stainless steel models.

The tank of the mated vehicle model was mounted on the sting-balance combination. The right wing was balance mounted to the orbiter and will provide wing normal force and bending and torsion moments for part of the test and during the remainder of the test the inboard and outboard elevons of the left wing was balance mounted to provide hinge moments.

CONFIGURATIONS INVESTIGATED

The integrated vehicle general arrangement is shown in Figure 2a. Two separate Orbiter models were utilized during this test to obtain different load conditions. A styrcast Orbiter (model 77-0) was instrumented in the wing to measure individual wing normal force, root bending moment and torsional moment. A stainless steel Orbiter (model 74-0) was instrumented to measure individual inboard and outboard elevon hinge moments. Both of the above models were utilized interchangeably with a stainless steel ET and SRB (model 74-T and 74-S, respectively) to make up the integrated vehicle. Aerodynamic loads on the complete vehicle were measured by a strain gage balance (MSFC TWT balance 239) located in the External Tank and supported by a sting which exited the rear of the model. The Orbiter attached to the ET at three points simulating the forward attach point and two rear attach points, which are also the main fuel lines. The SRB's also attached to the ET.

The configuration designations for the models used were:

Orbiter - (B62 C12 F10 M16 N28)(W127 E43)(V8 R5)

External Tank - T20 AT16 AT17 AT18 AT68 (AT69) FL5 FL6

FL9 FR6 PT12 PT13 PT14 PT20

Solid Rocket Booster - S22 PS7 PS9 PS20

These designations are tabulated below together with the appropriate definition documents.

<u>Component</u>	<u>Definition</u>
<u>Orbiter</u>	
B62	fuselage - per VL70-000200B, 202C, and 203
C12	canopy - per VL70-000202C
E43	elevon, 6" gap - per VL70-000200, 00608, 006092
F10	body flap - per VL70-000200B
M16	OMS pods - per VL70-008410, C08401
N28	OMS nozzle - per VL70-008457
R5	rudder - per VL70-000146A
V8	vertical tail - per VL70-00146A
W127	wing - per VL70-000200B
<u>Tank</u>	
AT16	attach structure, front ORB/ET - per SK-H-4011
AT17	attach structure, left rear ORB/ET - per VL78-000062B
AT18	attach structure, right rear ORB/ET - per VL78-000062B
AT68	forward ORB/ET attach ($i_o=0^\circ$) - per LMSC dwg. R80084
AT69	forward ORB/ET attach ($i_o=1.5^\circ$) - per LMSC dwg. R80084

ComponentDefinitionTank (continued)

FL5	LOX feed line ET/ORB - per VL78-000062A
FL6	LH ₂ pressure line ET/ORB - per VL78-000062A
FL9	LH ₂ feed line ET/ORB - per VL78-000062A
FR6	umbilical door fairing support - per VL78-000062A
PT12	tank lightning rod - per VL78-000062A
PT13	LOX recirculation line - per VL78-000062A
PT14	LOX pressure line - per VL78-000062A
PT20	LOX pressure line and electrical conduit - per VL78-000062A
T20	tank - per VL78-000041C

SRB

PS7	attach rings and rear structural ring - per VL77-000066
PS20	electrical tunnel - per VC77-000002
PS9	tie down structure - per VL77-000066
S22	SRB baseline - per VC77-000002

Additionally, the following Orbiter mid-wing spoilers were tested (see Figure 2e):

Z10 - full-span flipper door

Z12 - inboard flipper door

Z13 - outboard flipper door

Z14 - inboard flipper door tested at mid-span position

As can be noted in Table II, which is a summary of all configurations tested, several variations from the basic configurations occurred. Dataset 11 notes, for example, that the vertical tail on the stycast Orbiter sheered off during run 21 and was therefore missing on all subsequent runs on that model. At run 34 (dataset 21) the air gap that normally existed between the Orbiter wing and fuselage on model 77-0 was sealed to see if such action affected the wing loading. Additional runs (datasets 22, 23 and 24) were made with a fairing between the Orbiter and ET in an attempt to reduce overall drag. These fairings were labeled F3, F5, and F11 and are shown in Figures 2f & 2g. Due to the model scale, the fuel lines were simulated by attaching the scale line directly to the ET surface. Several runs were made (dataset 35) where the lines stood off the ET surface and were only attached at several points to ascertain any difference due to the attachment procedure.

TEST FACILITY DESCRIPTION

The Marshall Space Flight Center 14" x 14" Trisonic Wind Tunnel is an intermittent blowdown tunnel which operates by high pressure air flowing from storage to either vacuum or atmospheric conditions. A Mach number range from .2 to 5.85 is covered by utilizing two interchangeable test sections. The transonic section permits testing at Mach 0.20 through 2.50, and the supersonic section permits testing at Mach 2.74 through 5.85. Mach numbers between .2 and .9 are obtained by using a controllable diffuser. The range from .95 to 1.3 is achieved through the use of plenum suction and perforated walls. Mach numbers of 1.44, 1.93, and 2.50 are produced by interchangeable sets of fixed contour nozzle blocks. Above Mach 2.50 a set of fixed contour nozzle blocks are tilted and translated automatically to produce any desired Mach number in .25 increments.

Air is supplied to a 6000 cubic foot storage tank at approximately -40°F dew point and 500 psi. The compressor is a three-stage reciprocating unit driven by a 1500 hp motor.

The tunnel flow is established and controlled with a servo actuated gate valve. The controlled air flows through the valve diffuser into the stilling chamber and heat exchanger where the air temperature can be controlled from ambient to approximately 180°F. The air then passes through the test section which contains the nozzle blocks and test region.

Downstream of the test section is a hydraulically controlled pitch sector that provides a total angle of attack range of 20° (± 1°). Spin offsets are available for obtaining various maximum angles of attack up to 90°.

DATA REDUCTION

All model forces and moments (measured by balance 239) were resolved in the body axis system and are presented in the form of nondimensional coefficients. Data were corrected for weight tares and sting deflections. Coefficients were nondimensionalized, as shown below, using the reference dimensions given in Table IV.

MAIN BALANCE COEFFICIENTS

$$\begin{aligned}
 CNU &= \frac{F_N}{q S_{ref}} && , \text{ normal force coefficient uncorrected for base pressure forces.} \\
 CN &= CN_U - CNB_O - CN_{BF} && , \text{ normal force coefficient corrected for Orbiter base pressure acting on the Orbiter base and body flap.} \\
 CA &= \frac{F_A}{q S_{ref}} && , \text{ total axial force coefficient.} \\
 CAF &= CA - CAB_O - CAB_S - CAB_E && , \text{ forebody axial force coefficient.} \\
 CY &= \frac{F_Y}{q S_{ref}} && , \text{ side force coefficient} \\
 CLMU &= \frac{M_Y}{q S_{ref}^2 l_{ref}} && , \text{ pitching moment coefficient uncorrected for base pressure forces.} \\
 CLM &= CLMU + CNB_O \frac{x_1}{l_{ref}} + CN_{BF} \frac{x_2}{l_{ref}} - CAB_O \frac{z_1}{l_{ref}} && , \\
 &&& \text{pitching moment coefficient corrected for Orbiter base pressure acting on the Orbiter base and body flap.}
 \end{aligned}$$

DATA REDUCTION

MAIN BALANCE COEFFICIENTS (Continued)

$$CYN = \frac{M_z}{q S_{ref} l_{ref}} \quad , \text{ yawing moment coefficient}$$

$$CBL = \frac{M_x}{q S_{ref} l_{ref}} \quad , \text{ rolling moment coefficient}$$

$$CNBO = - CPB_0 \frac{A_{bo}}{S_{ref}} \tan i_b \quad , \text{ normal force component coefficient of Orbiter base drag}$$

$$CNBF = - CPB_{BF} \frac{S_{bf}}{S_{ref}} \quad , \text{ body flap upper surface normal force coefficient}$$

$$CABO = - CPB_0 \frac{A_{bo}}{S_{ref}} \quad , \text{ axial force component coefficient of Orbiter base drag}$$

$$CABS = - CPB_S \frac{A_{bs}}{S_{ref}} \quad , \text{ SRB base axial force coefficient}$$

$$CABE = - CPB_E \frac{A_{be}}{S_{ref}} \quad , \text{ tank base axial force coefficient}$$

$$\text{Where: } CPBO = \frac{P_{bo} - P_{\infty}}{q} \quad , \text{ Orbiter base pressure coefficient}$$

$$CPBS = \frac{P_{bs} - P_{\infty}}{q} \quad , \text{ SRB base pressure coefficient}$$

$$CPBE = \frac{P_{be} - P_{\infty}}{q} \quad , \text{ tank base pressure coefficient}$$

$$CPBBF = \frac{P_{bfbf} - P_{\infty}}{q} \quad , \text{ body flap upper surface pressure coefficient}$$

DATA REDUCTION

MAIN BALANCE COEFFICIENTS (Continued)

$$\begin{aligned}
 i_b &= 14^\circ 45' && , \text{ average Orbiter base slant angle} \\
 X_1 &= 5.052 \text{ in.} && , \text{ axial moment arm for Orbiter base drag} \\
 X_2 &= 5.319 \text{ in.} && , \text{ axial moment arm for body flap} \\
 z_1 &= 1.344 \text{ in.} && , \text{ vertical moment arm for Orbiter base drag}
 \end{aligned}$$

WING BALANCE COEFFICIENTS

$$\begin{aligned}
 C_{N_W} &= \frac{F_{N_W}}{q S_{\text{ref}}} && , \text{ wing normal force coefficient} \\
 C_{B_W} &= \frac{M_{B_W}}{q S_{\text{ref}} b_{\text{ref}}} && , \text{ wing root bending moment coefficient} \\
 &&& \text{for YMRP @ } Y_o = 105 \text{ in.} \\
 C_{T_W} &= \frac{M_{T_W}}{q S_{\text{ref}} \bar{c}} && , \text{ wing torsion moment coefficient} \\
 &&& \text{for XMRP @ } X_o = 1307 \text{ in.}
 \end{aligned}$$

ELEVON HINGE MOMENTS

Outboard

$$C_{h_{eo}} = \frac{HM_{eo}}{q S_{e\text{ref}} \bar{c}_e}$$

DATA REDUCTION

ELEVON HINGE MOMENTS (Continued)

Where: $C_{h_{eo}}$ = outboard elevon hinge moment coefficient

HM_{eo} = outboard elevon hinge moment

$S_{e_{ref}}$ = elevon reference area

\bar{c}_e = elevon reference length

Inboard

$$C_{h_{ei}} = \frac{HM_{ei}}{q S_{e_{ref}} \bar{c}_e}$$

Where: $C_{h_{ei}}$ = inboard elevon hinge moment coefficient

HM_{ei} = inboard elevon hinge moment

TABLE I

TEST : IA-71 (TWT-610)		DATE : 11/1/74	
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per foot)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.6	5.0 x 10 ⁶	4.35	100
0.8	6.0	6.45	100
0.9	6.2	7.36	100
0.95	6.4	7.72	100
1.0	6.5	8.14	100
1.05	6.6	8.72	100
1.10	6.6	9.29	100
1.15	6.7	9.99	100
1.2	6.7	10.68	100
1.25	6.8	11.38	100
1.46	6.5	9.47	100
1.96	7.0	10.20	100

BALANCE UTILIZED: MSFC 239

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	<u>200 lbs.</u>	<u>+ 1.0 lb.</u>	<u>+ 0.15</u>
SF	<u>100 lbs.</u>	<u>+ 0.5 lb.</u>	<u>+ 0.08</u>
AF	<u>50 lbs.</u>	<u>+ 0.25 lb.</u>	<u>+ 0.04</u>
PM	<u>197 in. lbs.</u>	<u>+ 1.0 in.lb.</u>	<u>+ 0.18</u>
RM	<u>98 in. lbs.</u>	<u>+0.5 in.lb.</u>	<u>+ 0.09</u>
YM	<u>50 in. lbs.</u>	<u>+ 0.2 in.lb.</u>	<u>+ 0.05</u>

COMMENTS:

Accuracy based on + 0.5% of balance capacity.

Tolerance based on $\bar{q} = 10$ psi.

TABLE II

TEST: M2FC 610 (IA-71)		DATA SET/RUN NUMBER COLLATION SUMMARY														DATE: POST-TEST									
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS		MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										TEST RUN NUMBERS									
		A	B	λ_c	SFD	0.6	0.8	0.9	0.95	1.00	1.05	1.10	1.15	1.20	1.25	1.46	1.46	1.46	1.46						
01	74-PTS (STEEL)	A	0	0°	0		301	324/1		303/2	304/1	305			306/1	317									
02		0	B	T	0					307															
03	74-PTS (HM) E10	A	0	40°	40°		312	311		310/1	309	313			314	315	316								
04		0	B	40°	40°					308															
05		A	0	20°	20°		325	324/1	323	321/3	320/1	327	328	329	320	319	350								
06		0	B	20°	20°			331		330					332/1	351									
07		A	0	0°	0°				338				339	340	322										
08		0	B	0°	0°			336	337	353		354	335	334	333	352									
09		0	B	10°	10°					347															
10		A	0	10°	10°		345	344		343	346	342			341	348	349								
11	77-Φ, 74-TS (SEE NOTE)	A	0	0°	0°	1	2/1	3/1		4	5	6			7	20	21/1								
12		A	0	0°	0°			38	67		39		66	68	40										
13		0	B	0°	0°			61	62	63	107	64	65	60	59	98									
14		A	0	40°	40°		13	12		11	10	14			15	19	22								
15		0	B	40°	40°						9														
16		A	0	20°	20°		32	31		17	30	29			16	18	28								
17		0	B	20°	20°			73			12				74	97									
18		0	B	10°	10°					57	56				58	99									

TABLE II (Concluded)

TEST:MSFC 610 (IA-71)

DATE:Post-Test

DATA SET/RUN NUMBER COLLATION SUMMARY

TEST RUN NUMBERS

DATA SET IDENTIFIER	CONFIGURATION	SCND. PARAMETERS		MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)															
		α	β	10°	5°	0°	0°	0°	0.95	1.00	1.05	1.10	1.15	1.20	1.25	1.46	1.94		
19	77-6, 74-15	A	0	0	0	10°			49	50	51	54	55	53	52	48	47	100	106
20		A	0	-3°	0°				53	27			26	25		24	23		
21	(SERIALIZED) 74-15	A	0	0	0	20°							36	34					
22	(W/EQUILIB.) F3	A	0	0	0	0°			37				42			35			
23	F5	A	0	0	0	0°			41				45			43			
24	F11	A	0	0	0	0°			46							44			
25	74-6, 75	A	0	0	0	20°			370	371	372	377	378	376	373	374	356	357	
26		A	0	0	0	40°			369	368		365	364	366		367	355	359	
27		0	B	0	0	20°			380				379			381		358	
28		0	B	0	0	40°			361				365			362		360	
29	712	A	0	0	0	20°			383			384	385			382			
30	714	A	0	0	0	20°			388			387	386			389			
31	77-6, 74-15	A	0	0	0	20°			93	92	91	90	89	87	88	94	95	96	105
32		A	0	0	0	40°			82	83		84	85	86		81	101	102	
33		0	B	0	0	20°				77			76			75		104	
34		0	B	0	0	40°				78			79			80			
35	(STAND-OFF FUEL LINE)	0	B	0	0	0°			109				110			111			
36	710	0	B	0	0	0°							8						
37		A	0	0	0	20°			70						71	69		108	

α OR β

SCHEDULES

COEFFICIENTS

10VAR (1)

10VAR (2)

NDV

TABLE III.
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B62

GENERAL DESCRIPTION : Configuration 140 C/D orbiter fuselage, MCR
200-B4. Similar to 140 A/B fuselage except aft body revised and
improved midbody-wing-boom fairing, $X_0 = 940$ to $X_0 = 1040$.

MODEL SCALE: 0.001

DRAWING NUMBER VL70-000140C, -000202C, 000205A, -000200B, -000203A.

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (IML: Fwd Sta. $X_0=238$), In.	1290.3	5.161
Length (OML: Fwd Sta $X_0=235$), In.	1293.3	5.173
Max Width(@ $X_0 = 1528.3$), In.	244.0	1.056
Max Depth (@ $X_0 = 1464$), In.	250.0	1.000
Fineness Ratio	4.899	4.899
Area - Ft^2		
Max. Cross-Sectional	340.885	0.0055
Planform		
Wetted		
Base		

TABLE III (Cont'd)

MODEL COMPONENT : CANOPY - C₁₂GENERAL DESCRIPTION : Configuration 140 C/D orbiter canopy, vehicle
cabin No. 31 updated to MCR 200-R₁. Used with fuselage B₆₂.MODEL SCALE: 0.004DRAWING NUMBER VL70-000140C, -000202B, -000204

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ($X_0 = 434.643-578$), in.	<u>143.357</u>	<u>0.573</u>
Max Width (@ $X_0 = 513.127$), In.	<u>152.412</u>	<u>0.610</u>
Max Depth ($Z_0 = 501$ to 449.39), In.	<u>51.61</u>	<u>0.206</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Cont'd)

MODEL COMPONENT : BODY FLAP - F₁₀

GENERAL DESCRIPTION : Configuration 140C/D body flap. Hingeline
located at X₀ = 1532, Z₀ = 238.

MODEL SCALE: 0.0040

DRAWING NUMBER VL70-000140C, VL70-355114

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (X ₀ =1525.5 to X ₀ =1613), In.	<u>87.50</u>	<u>0.350</u>
Max Width (@ L.E., X ₀ = 1525.5), In.	<u>256.00</u>	<u>1.024</u>
Max Depth (X ₀ = 1532), In.	<u>19.798</u>	<u>0.792</u>
Fineness Ratio	<u> </u>	<u> </u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional (@H.L.)	<u>35.196</u>	<u>0.00056</u>
Planform	<u>135.00</u>	<u>0.0022</u>
Wetted	<u> </u>	<u> </u>
Base (X ₀ = 1613)	<u>4.89</u>	<u>0.000078</u>

TABLE III (Cont'd)

MODEL COMPONENT : O/S POD - M₁₆

GENERAL DESCRIPTION : Configuration 140C orbiter O/S pod - short
pod.

MODEL SCALE: 0.0040

DRAWING NUMBER : VL70-008401, VL70-008410 - plus $\frac{1}{2}$ " added to
simulate TPS

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (O/S Fwd Sta $X_0=1310.5$), In.	<u>258.50</u>	<u>1.034</u>
Max Width (@ $X_0 = 1511$), In.	<u>136.8</u>	<u>0.547</u>
Max Depth (@ $X_0 = 1511$), In.	<u>74.70</u>	<u>0.299</u>
Fineness Ratio	<u>2.484</u>	<u>2.484</u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>58.865</u>	<u>0.0094</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Cont'd)

MODEL COMPONENT: OMS NOZZLES - N₂₈

GENERAL DESCRIPTION: Configuration 140A/B Orbiter OMS nozzles

MODEL SCALE: 0.0040

DRAWING NUMBER: VL70-000140A (Location); SS-A00106, RELEASE 5 (Contour)

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane		
Throat to Exit Plane		
Diameter - In.		
Exit		
Throat		
Inlet		
Area - ft ²		
Exit		
Throat		
Gimbal Point (Station) - In.		
Upper Nozzle Left Nozzle		
X	<u>1518.0</u>	<u>6.072</u>
Y	<u>- 88.0</u>	<u>- 0.352</u>
Z	<u>492.0</u>	<u>1.968</u>
Right		
Lower Nozzles		
X	<u>1518.00</u>	<u>6.072</u>
Y	<u>88.0</u>	<u>0.352</u>
Z	<u>492.0</u>	<u>1.968</u>
Null Position - Deg.		
Left/Upper Nozzle		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>12°17'</u>	<u>12°17'</u>
Right		
Lower Nozzle		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>12°17'</u>	<u>12°17'</u>

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TABLE III (Cont'd)

MODEL COMPONENT: WING-W 127

GENERAL DESCRIPTION: Configuration 140C/D orbiter wing, MCR 200-B4, similar to
140A/B wing W116 but with refinements: improved wing-root-midbody fairing
($X_0 = 940$ to $X_0 = 1040$); elevon split line relocated from $Y_0 = 281$ to $Y_0 = 312.5$.

MODEL SCALE: 0.0040

TEST NO.

DWG. NO. VL70-000140C, -000200BDIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATAArea (Theo.) Ft^2

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATAArea (Theo) Ft^2

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip $1.00 \frac{b}{2}$

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)
XXXX-64Root $\frac{b}{2} =$ Tip $\frac{b}{2} =$

Data for (1) of (2) Sides

Leading Edge Cuff Ft^2 Planform Area Ft^2

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

TABLE III (Cont'd)

MODEL COMPONENT : ELEVON - E₁₃

GENERAL DESCRIPTION : Configuration 140A/R orbiter elevons. Data are for one side. E₁₃ is 6" F. S. slotted gap version of E₂₆. gaps at inboard end of elevon and at Y₀ = 311.0

MODEL SCALE: 0.0040

MODEL DRAWING:

R8006, Elevons
Lockheed Missile & Space Co.
Huntsville, Ala.

DRAWING NUMBER VL70-000200, -006089, -006092

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft ²	<u>210.0</u>	<u>0.003</u>
Span (equivalent), In.	<u>349.2</u>	<u>1.397</u>
Inb'd equivalent chord, In.	<u>118.004</u>	<u>0.472</u>
Outb'd equivalent chord, In.	<u>55.192</u>	<u>0.221</u>
Ratio movable surface chord/ total surface chord	<u> </u>	<u> </u>
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees	<u> </u>	<u> </u>
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>- 10.056</u>	<u>-10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
(Product of Area & c)	<u> </u>	<u> </u>
Area Moment (Normal to hinge line), Ft ³	<u>1587.25</u>	<u>0.001</u>
Mean Aerodynamic Chord	<u>90.7</u>	<u>0.363</u>

TABLE III (Cont'd)

MODEL COMPONENT: VERTICAL - V₈GENERAL DESCRIPTION: Configuration 140C/D orbiter vertical tail(identical to configuration 140A/B vertical tail).MODEL SCALE: 0.0040DRAWING NUMBER: VL70-000140C, -000146BDIMENSIONS: FULL SCALE MODEL SCALE

TOTAL DATA

Area (Theo) - Ft ²		
Planform	<u>413.253</u>	<u>0.0068</u>
Span (Theo) - In.	<u>315.720</u>	<u>1.263</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.000</u>	<u>45.000</u>
* Trailing Edge	<u>26.2</u>	<u>26.2</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>
Chords:		
Root (Theo) WP	<u>268.500</u>	<u>1.074</u>
Tip (Theo) WP	<u>108.470</u>	<u>0.434</u>
M/C	<u>199.808</u>	<u>0.799</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>5.854</u>
W.P. of .25 MAC	<u>635.522</u>	<u>2.542</u>
B.L. of .25 MAC	<u>0.000</u>	<u>0.000</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.000</u>	<u>10.000</u>
Trailing Wedge Angle - Deg.	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius	<u>2.00</u>	<u>0.008</u>
Void Area	<u>13.17</u>	<u>0.00021</u>
Blanketed Area	<u>0.00</u>	<u>0.000</u>

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TABLE III (Cont'd)

MODEL COMPONENT: R5 - RudderGENERAL DESCRIPTION: 2A and 3 configuration per Rockwell lines
VL70-000095 and VL70-000139Scale Model = .004DRAWING NUMBER: VL70-000139
VL70-000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area ~ Ft ²	<u>106.38</u>	<u>0.00170</u>
Span (equivalent) ~ IN.	<u>201.0</u>	<u>0.8040</u>
Inb'd equivalent chord	<u>91.585</u>	<u>0.36634</u>
Outb'd equivalent chord	<u>50.833</u>	<u>0.20333</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Tailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Normal to hinge line) Ft ³	<u>526.13</u>	<u>0.00003</u>
Product of area and mean chord		

TABLE III (Cont'd)

MODEL COMPONENT : EXTERNAL TANK - T₂₀GENERAL DESCRIPTION : External Oxygen-Hydrogen tankMODEL SCALE: 0.0040DRAWING NUMBER : VI.72-000131, VI.78-000062

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length, In. (Nose @ X _T = 328.92)	<u>1846.005</u>	<u>7.388</u>
Max Width Dia, In. @ X _T = 975.675	<u>333.2</u>	<u>1.333</u>
Max Depth, In.	<u>330.2</u>	<u>1.333</u>
Fineness Ratio	<u>5.65713</u>	<u>5.65713</u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>605.534</u>	<u>0.0096</u>
Major Cross section	<u>594.679</u>	<u>0.0095</u>
WP of tank centerline (Z), In.	<u>400.000</u>	<u>0.0064</u>
Base (on 330.2 dia.)	<u>594.679</u>	<u>0.0095</u>

TABLE III (Cont'd)

MODEL COMPONENT: ATTACH STRUCTURE - AT₁₆

GENERAL DESCRIPTION: Forward orbiter/ET attach structure (2 member structure)

MODEL SCALE: 0.0040

MODEL DRAWING: SS-A00117

DRAWING NO.: VL78-000062B, SK-H-4011

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE
	#1	X _O	394.38	1.578
		Y _O	0.00	0.00
		Z _O	LWR ML	LWR ML
		X _T	1131.00	4.524
		Y _T	561.298	0.187
		Z _T	561.298	2.245
	#2	X _O	394.38	1.578
		Y _O	0	0
		Z _O	LWR ML	LWR ML
		X _T	1131.00	4.524
		Y _T	- 46.8	- 0.187
		Z _T	561.298	2.245
Diameter of members: (In.)			5.70	0.0228

TABLE III (Cont'd)

MODEL COMPONENT: ATTACH STRUCTURE - AT₁₇

GENERAL DESCRIPTION: Left rear orbiter/ET attach structure (2 member structure)

MODEL SCALE: 0.004

DRAWING NO.: VL78-000062B, SK-H-4013.

MODEL DRAWING: SS-A00117

DIMENSIONS:	<u>MEMBER</u>		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
#	#1	X _O	1317	5.258
		Y _O	- 96.5	-0.386
		Z _O	267.5	1.070
		X _T	2058.0	8.232
		Y _T	- 125.827	-0.503
		Z _T	515.5	2.062
	#2	X _O	1317.0	5.258
		Y _O	- 96.5	-0.386
		Z _O	267.5	1.070
		X _T	2058.0	8.232
		Y _T	- 125.827	-0.503
		Z _T	515.5	2.062

Diameter of Members: #1 11.5 In. Dia. F.S.

#2 15.5 In. Dia. F.S.

TABLE III (Cont'd)

MODEL COMPONENT: ATTACH STRUCTURE - AT₁₈

GENERAL DESCRIPTION: Right rear orbiter/ET attach structure (3 member structure)

MODEL SCALE: 0.004

DRAWING NO.: VL78-000062B, SK-H-4013

MODEL DRAWING: SS-A00117

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE
	#1	X _O	1317.00	5.258
		Y _O	+ 96.5	+ .386
		Z _O	267.5	1.070
		X _T	1872.0	7.488
		Y _T	+ 125.827	+0.503
		Z _T	515.5	2.062
	#2	X _O	1317.0	5.258
		Y _O	+ 96.5	+0.386
		Z _O	267.5	1.070
		X _T	2058.0	8.232
		Y _T	+ 125.827	0.503
		Z _T	515.5	2.062
	#3	X _O	1317.0	5.258
		Y _O	54.40	0.218
		Z _O	19.30	0.077
		X _T	2058.0	8.232
		Y _T	2.5	0.010
		Z _T	567.6	2.270
Diameter of Members: (In.)	#1		15.5	
	#2		11.5	
	#3		4.5	

TABLE III (Cont'd)

MODEL COMPONENT: ATTACH STRUCTURE - AT₆₈

GENERAL DESCRIPTION: Forward ET/orbiter attach, 74-0 model, vertical single post attach member.

MODEL SCALE: 0.0040

DRAWING NO.: VL78-000062B

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
X ₀	<u>388.15</u>	<u>1.553</u>
Y ₀	<u>0.0</u>	<u>0.0</u>
Z ₀	<u>LML</u>	<u>LML</u>
X _T	<u>1129.9</u>	<u>4.520</u>
Y _T	<u>0.0</u>	<u>0.0</u>
Z _T (Attach Point on Tank)	<u>565.1</u>	<u>2.2604</u>
Diameter, Inches	<u>15.75</u>	<u>0.063</u>
Height of Member (distance between top centerline of tank and bottom centerline of orbiter), In.	<u>48.9</u>	<u>0.196</u>

TABLE III (Cont'd)

MODEL COMPONENT: ATTACH STRUCTURE - AT₆₉

GENERAL DESCRIPTION: Forward ET/orbiter attach, model 74-0, vertical single post attach member.

MODEL SCALE: 0.0040

DRAWING NO.: VL78-000062B

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
X ₀	<u>388.15</u>	<u>1.553</u>
Y ₀	<u>0.0</u>	<u>0.0</u>
Z ₀	<u>LML</u>	<u>LML</u>
X _T	<u>1129.9</u>	<u>4.520</u>
Y _T	<u>0.0</u>	<u>0.0</u>
Z _T (Attach Point on Tank)	<u>565.1</u>	<u>2.2604</u>
Diameter, Inches	<u>15.75</u>	<u>0.063</u>
Height of Member (distance between top centerline of tank and bottom centerline of orbiter), In.	<u>24.45</u>	<u>0.098</u>

TABLE III (Cont'd)

MODEL COMPONENT: FEEDLINE - FL₅

GENERAL DESCRIPTION: LOX feedline simulated between ET and Orbiter.

MODEL SCALE: 0.0040

MODEL DRAWING: SS-A00117

DRAWING NO.: VL78-000062B

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1033.3	4.132
	Y _T	70.0	0.280
	X _T	1033.3	4.132
	Y _T	- 70.0	- 0.280
Trailing edge at:	X _T	2071.50	8.286
	Y _T	70.00	0.280
	X _T	2071.50	8.286
	Y _T	70.00	0.280
Diameter, In.		18.80	0.188

Centerline of LOX feedline located radially at $\phi = 23^{\circ}24'$

TABLE III (Cont'd)

MODEL COMPONENT: PRESSURE LINE - FL₆

GENERAL DESCRIPTION: Max. cross-sectional area simulating LH₂ pressure line and electrical conduit box between ET and Orbiter.

MODEL SCALE: 0.0040

DRAWING NO.: VL78-000062B

MODEL DRAWING: SS-A00117

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1127.1	4.508
	Y _T	110.3	0.441
Trailing edge at:	X _T	2062.1	8.248
	Y _T	110.3	0.441

Centerline of LH pressure line located radially at $\phi = 33^{\circ}45'$.

TABLE III (Cont'd)

MODEL COMPONENT : LH₂ UMBILICAL FEEDLINE - EL₉

GENERAL DESCRIPTION : LH₂ Umbilical Feedline with an electrical quick-disconnect box between the Orbiter and ET.

MODEL SCALE: 0.0040

DRAWING NUMBER : VL78-000062B

DIMENSIONS :	FULL SCALE	MODEL SCALE
Centerline at X	<u>2071.5</u>	<u>8.286</u>
Max Width	<u>31.2</u>	<u>0.125</u>
Max Depth	<u>37.5</u>	<u>0.150</u>
Diameter	<u>17.0</u>	<u>0.068</u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Cont'd)

MODEL COMPONENT: REAR ATTACH STRUCTURE FAIRING - FR₆

GENERAL DESCRIPTION: Rear ET/Orbiter attach structure cross-member or beam fairing used in conjunction with AT₁₂, AT₁₃, FL₁ and FL₂.

MODEL SCALE: 0.0040

DRAWING NO.: VL78-000062B

MODEL DRAWING: SS-A01256

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge centerline at	X _T	2036.67	8.147
	Y _T	0.00	0.00
	Z _T	183.00	0.732
Maximum length, In.		64.00	0.256
Maximum width, In.		190.00	0.760

TABLE III (Cont'd)

MODEL COMPONENT: ET PROTUBERANCE - PT₁₂

GENERAL DESCRIPTION: Lightning rod attached to ET nose.

MODEL SCALE: 0.004

DRAWING NO.: VL78-000068A

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length	30.90	0.124
Diameter, In.	3.20	0.013

TABLE III (Cont'd)

MODEL COMPONENT: ET PROTUBERANCE - PT₁₃

GENERAL DESCRIPTION: Maximum cross-sectional area simulating LOX recirculation line and electrical conduit box on planform view of External Tank, T₂₀.

MODEL SCALE: 0.0040

MODEL DRAWING: SS-A00117

DRAWING NO.: VL78-000062B

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1208.3	4.833
	Y _T	+ 95.0	+ 0.380
	X _T	1208.3	4.833
	Y _T	- 95.0	- 0.380
Trailing edge at:	X _T	2060.5	8.242
	Y _T	95.0	0.380
	X _T	2060.5	8.242
	Y _T	- 95.0	- 0.380

Centerline of LOX recirculation line located radially at $\phi = 33^{\circ}45'$.

TABLE III (Cont'd)

MODEL COMPONENT: ET PROTUBERANCE - PT₁₄

GENERAL DESCRIPTION: LOX pressure line on Tank T₂₀.

MODEL SCALE: 0.0040

DRAWING NO.: VL78-000062B

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	355.90	1.424
	Y _T	6.0	0.024
Trailing edge at:	X _T	2060.5	8.242
	Y _T	87.0	0.348

Centerline of LOX pressure line located radially at $\phi = 23^{\circ}24'$.

TABLE III (Cont'd)

MODEL COMPONENT: NOSE CONE LINES - PT_{20}

GENERAL DESCRIPTION: Maximum cross-sectional area simulating the LOX pressure line and electrical conduit on top of external tank (T_{20}) nose cone area.

MODEL SCALE: 0.0040

DRAWING NO.:

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X_T	360.92	1.444
	Y_T	34.0	0.136
Trailing edge at:	X_T	955.1	3.820
	Y_T	336.5	1.346

Centerline of lines located radially at $\phi = 33^{\circ}45'$.

TABLE III (Cont'd)

MODEL COMPONENT : BOOSTER SOLID ROCKET MOTOR - S₂₂

GENERAL DESCRIPTION : The BSRM is an external propulsion system which is jettisoned and recoverable after burnout. The BSRM's can be refurbished and reused after recovery.

MODEL SCALE: 0.0040DRAWING NUMBER : VC77-000002C, VC70-000002A, VC72-000002C

DIMENSIONS :

	FULL SCALE	MODEL SCALE
Length , In.,	<u>1789.60</u>	<u>7.158</u>
Max Width, Tank Dia., In.	<u>146.00</u>	<u>0.584</u>
Max Depth , Aft shroud dia., In.	<u>208.20</u>	<u>0.833</u>
Fineness Ratio	<u>8.596</u>	<u>8.596</u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>236.423</u>	<u>0.0038</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
WP of BSRM centerline (Z_T)	<u>400.00</u>	<u>1.600</u>
FS of BSRM nose (X_T)	<u>743.0</u>	<u>2.972</u>
BP of BSRM centerline (Y_T)	<u>250.5</u>	<u>1.002</u>

TABLE III (Cont'd)

MODEL COMPONENT: SRB PROTUBERANCE - PS₇

GENERAL DESCRIPTION: SRB/ET attach ring: two attach rings and one structural ring.

MODEL SCALE: 0.0040

DRAWING NO.: VL77-000066

DIMENSIONS (DATA FOR 1 OF 2):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Centerline at X _B	1505	6.020
	1517	6.068
	1852	7.408
Width	10	0.040
Height	10	0.040

TABLE III (Cont'd)

MODEL COMPONENT: Tie-DOWN STRUCTURE - PS-9

GENERAL DESCRIPTION: Tie-down lugs on shroud of solid rocket motor booster.

MODEL SCALE: 0.004

DRAWING NO.: VL77-000066

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Number of tie-down lugs	4	4
Length, In.	64.00	0.256
Width, In.	13.00	0.052
Max. Height (at T. E.)	8.334	0.033
Angular position (from vertical), Deg.	60	60

TABLE III (Cont'd)

MODEL COMPONENT : SRB PROTUBERANCE - PS20GENERAL DESCRIPTION : Electrical tunnel on SRB side, 30 deg. taper
leading edge, circular cross section with mounting flange. Tunnel
discontinued from $X_p = 1504.25$ to 1517.75 MODEL SCALE: 0.0040 MODEL DRAWING: SS-A01281DRAWING NUMBER : VC77-000002A

DIMENSIONS :

FULL SCALE

MODEL SCALE

Length , In.

1384.575.538

Max Width

13.000.052

Max Depth

3.720.015

Radius

0.6190.619

Fineness Ratio

Area

Max. Cross-Sectional

Planform

Wetted

Base

Taper at leading edge, deg.

3030

TABLE III (Cont'd)

MODEL COMPONENT: SPOILER - Z_{10}

GENERAL DESCRIPTION: Elevon flipper door spoiler.

MODEL SCALE: 0.0040

DRAWING NO.: NONE

DIMENSIONS:

Inboard Station:

Leading edge @ X_0

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge @ X_0	<u>1366.37</u>	<u>5.46548</u>
Trailing edge @ X_0	<u>1401.57</u>	<u>5.60628</u>
Trailing edge @ Y_0	<u>126.06</u>	<u>0.50424</u>
Outboard Station:		
Leading edge @ X_0	<u>1366.37</u>	<u>5.46548</u>
Trailing edge @ X_0	<u>1395.84</u>	<u>5.58336</u>
Trailing edge @ Y_0	<u>450.8</u>	<u>1.8032</u>
Split line, Y_0	<u>312.5</u>	<u>1.2500</u>

Trailing edge @ X_0

Trailing edge @ Y_0

Outboard Station:

Leading edge @ X_0

Trailing edge @ X_0

Trailing edge @ Y_0

Split line, Y_0

TABLE III (Cont'd)
MODEL DIMENSIONAL DATA

MODEL COMPONENT: SPOILER - Z₁₂

GENERAL DESCRIPTION: Elevon flipper door spoiler - Inboard.

MODEL SCALE: 0.0040

DRAWING NO.: NONE

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Inboard .Station:		
Leading edge @ X ₀	<u>1366.37</u>	<u>5.465</u>
Trailing edge @ X ₀	<u>1401.57</u>	<u>5.606</u>
Trailing edge @ Y ₀	<u>126.06</u>	<u>0.504</u>
Span	<u>186.44</u>	<u>0.746</u>

TABLE III (Cont'd)

MODEL DIMENSIONAL DATA

MODEL COMPONENT: SPOILER - Z₁₃

GENERAL DESCRIPTION: Elevon flipper door spoiler - Outboard.

MODEL SCALE: 0.0040

DRAWING NO.: NONE

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Outboard Station:		
Leading edge @ X ₀	<u>1366.37</u>	<u>5.465</u>
Trailing edge @ X ₀	<u>1395.84</u>	<u>5.583</u>
Trailing edge @ Y ₀	<u>450.8</u>	<u>1.803</u>
Span	<u>138.30</u>	<u>0.553</u>

TABLE III (Cont'd)

MODEL DIMENSIONAL DATA

MODEL COMPONENT: SPOILER - Z₁₄

GENERAL DESCRIPTION: Elevon flipper door spoiler - Inboard (Midspan)

MODEL SCALE: 0.0040

DRAWING NO.: NONE

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Inboard Station:		
Leading edge @ X ₀	<u>1366.37</u>	<u>5.465</u>
Trailing edge @ X ₀	<u>1401.57</u>	<u>5.606</u>
Trailing edge @ Y ₀	<u>219.06</u>	<u>0.876</u>
Span	<u>186.44</u>	<u>0.746</u>

TABLE IV. - 0.004-SCALE INTEGRATED VEHICLE

REFERENCE DIMENSIONS

<u>PARAMETER</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
<u>Reference Area.</u>		
S_{ref} (wing)	2690.00 ft. ²	6.198 in. ²
$S_{bf_{ref}}$	142.60 ft. ²	0.329 in. ²
S_{eref}	210.00 ft. ²	0.484 in. ²
<u>Reference Lengths</u>		
\bar{c} (m.a.c.)	474.8 in.	1.899 in.
l_{ref} (body length)	1290.0 in.	5.160 in.
b_{ref} (wing span)	936.7 in.	3.747 in.
Longitudinal tank station (XMRP) of moment reference point, X_T	976.0 in.	3.904 in.
\bar{c}_e	90.7 in.	0.363 in.
<u>Base Areas</u>		
Orbiter (A_{b_o})	436.7 ft. ²	1.006 in. ²
Tank (A_{b_e})	597.6 ft. ²	1.377 in. ²
SRB ($A_{b_s}, 2$)	472.8 ft. ²	1.089 in. ²

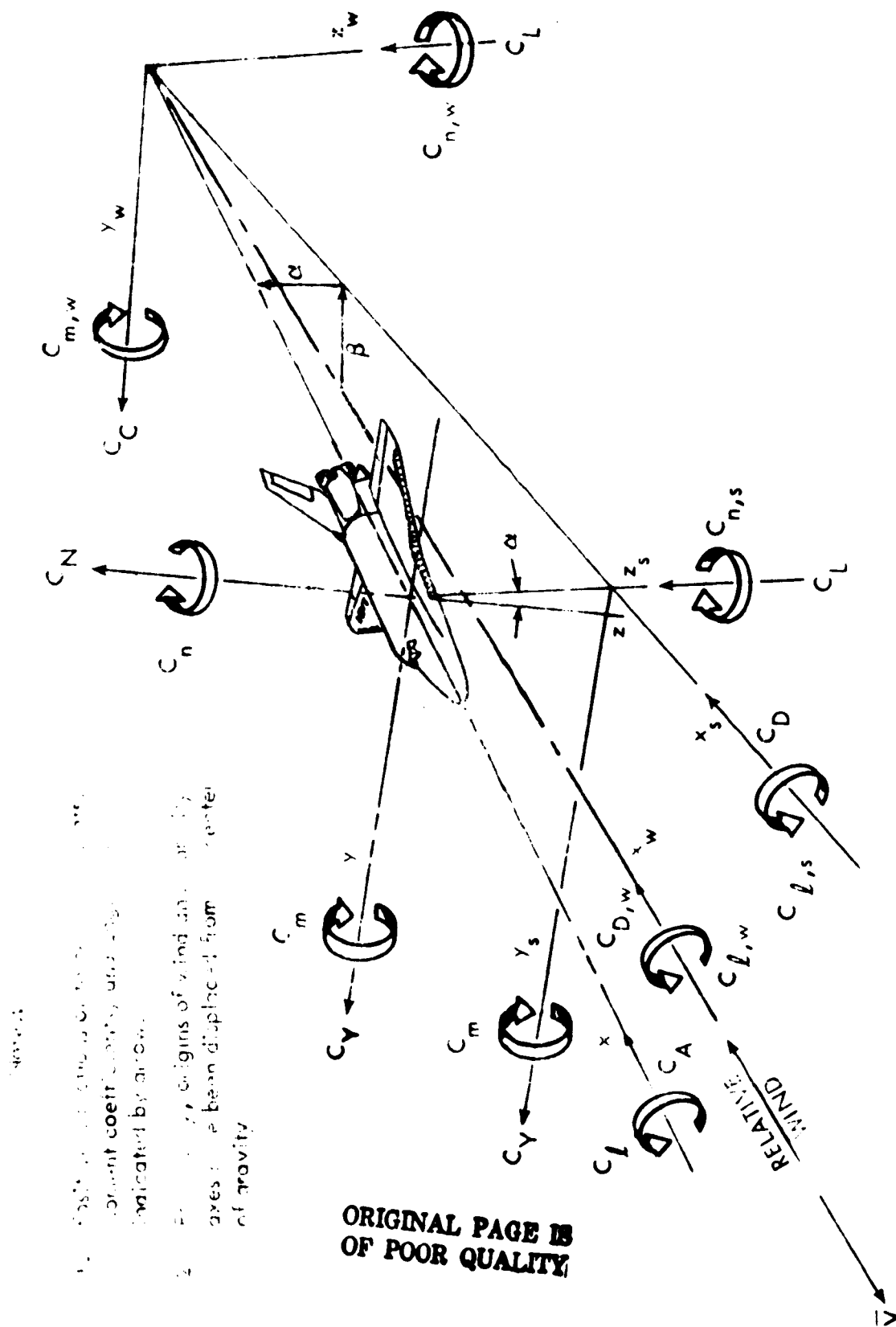
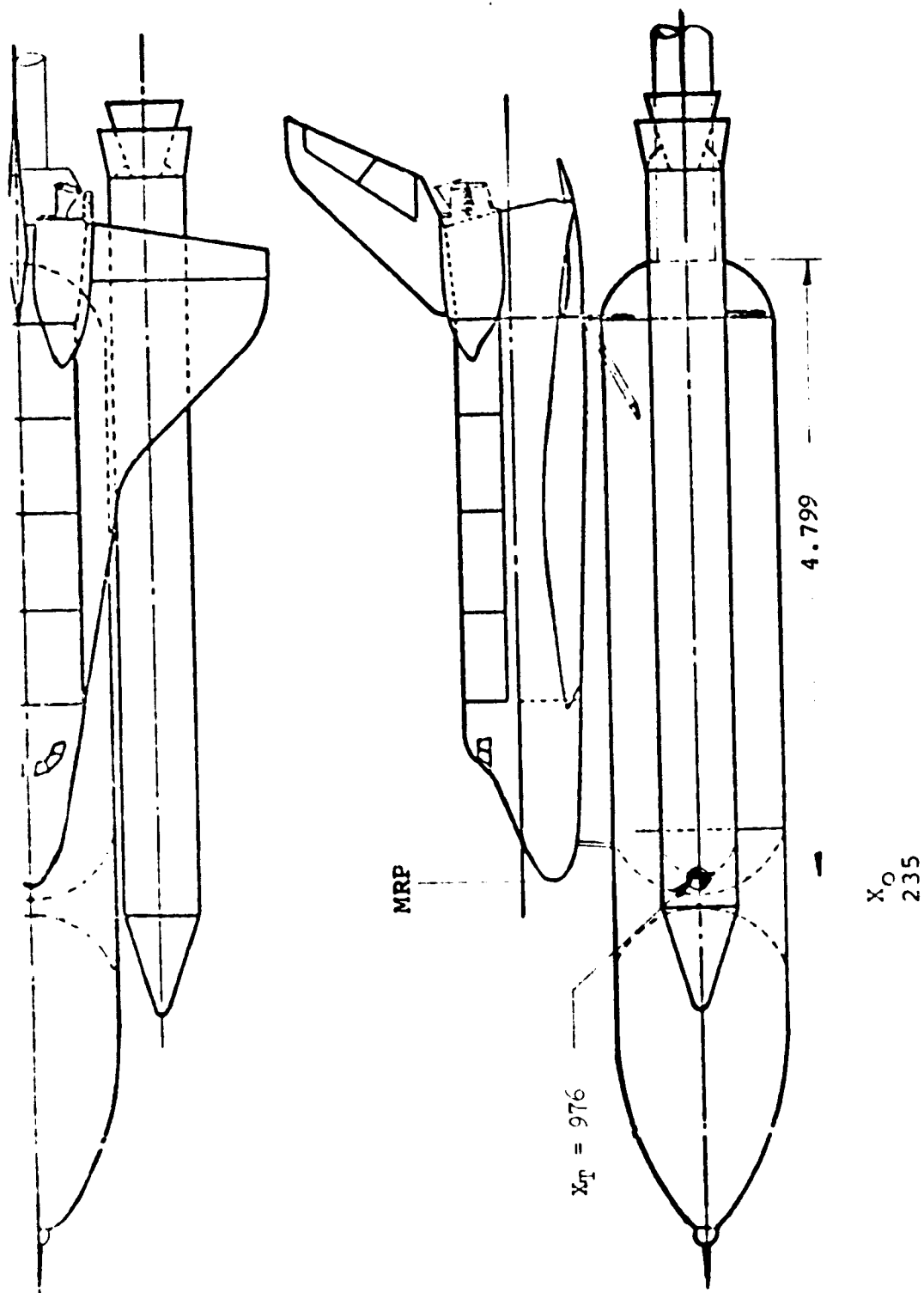
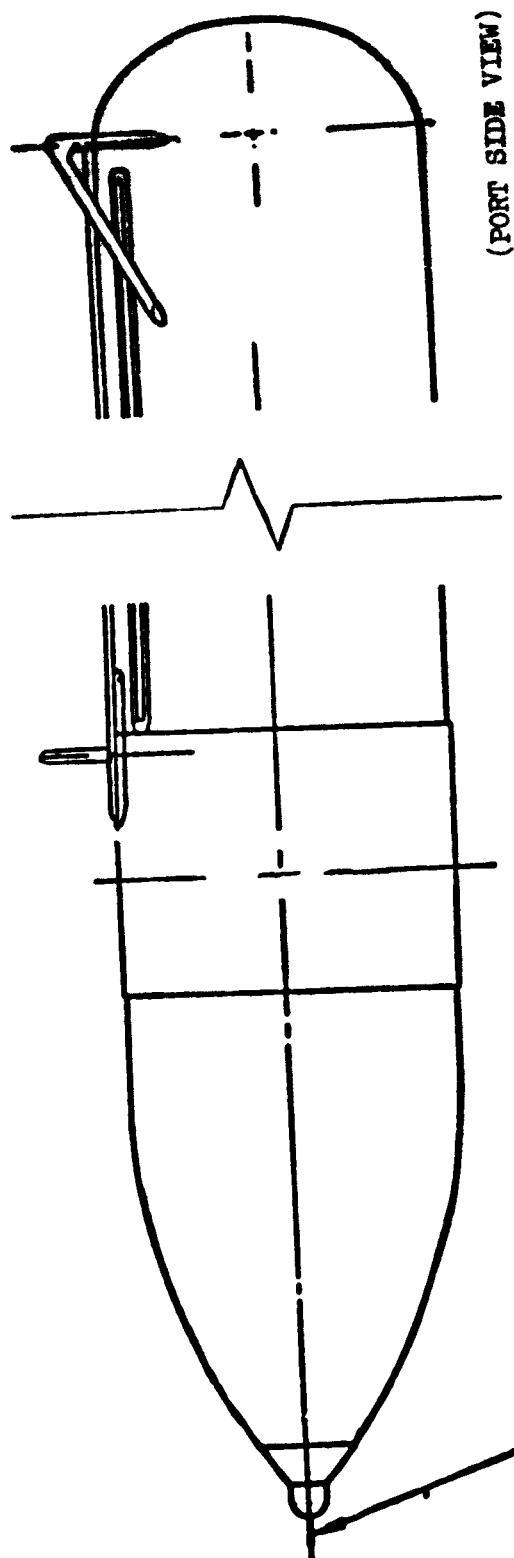


Figure 1. - Axis Systems.

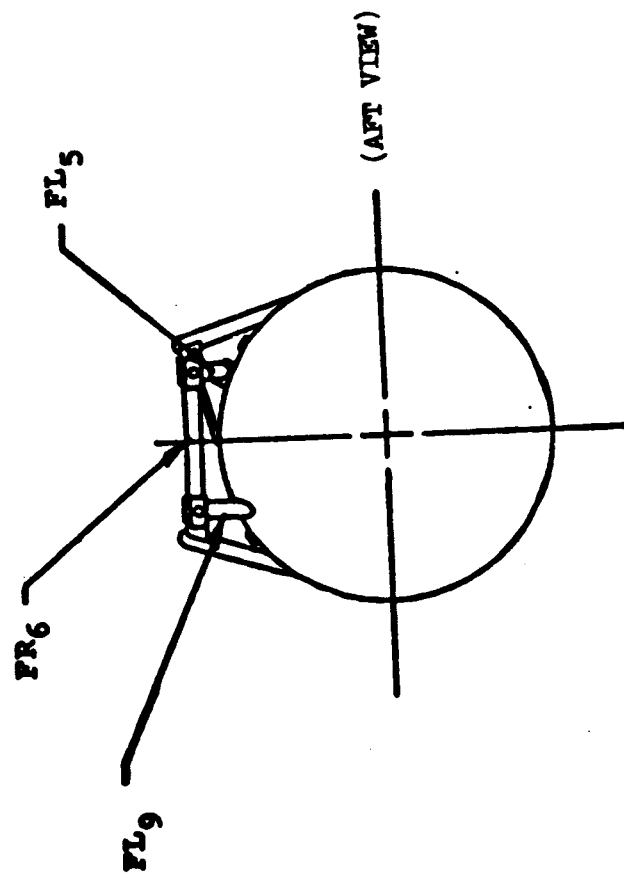
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OF POOR QUALITY



4. General Arrangement of Launch Vehicle Model (Balance in Tank, Straight Sting)
Figure 2. - Model Sketches.

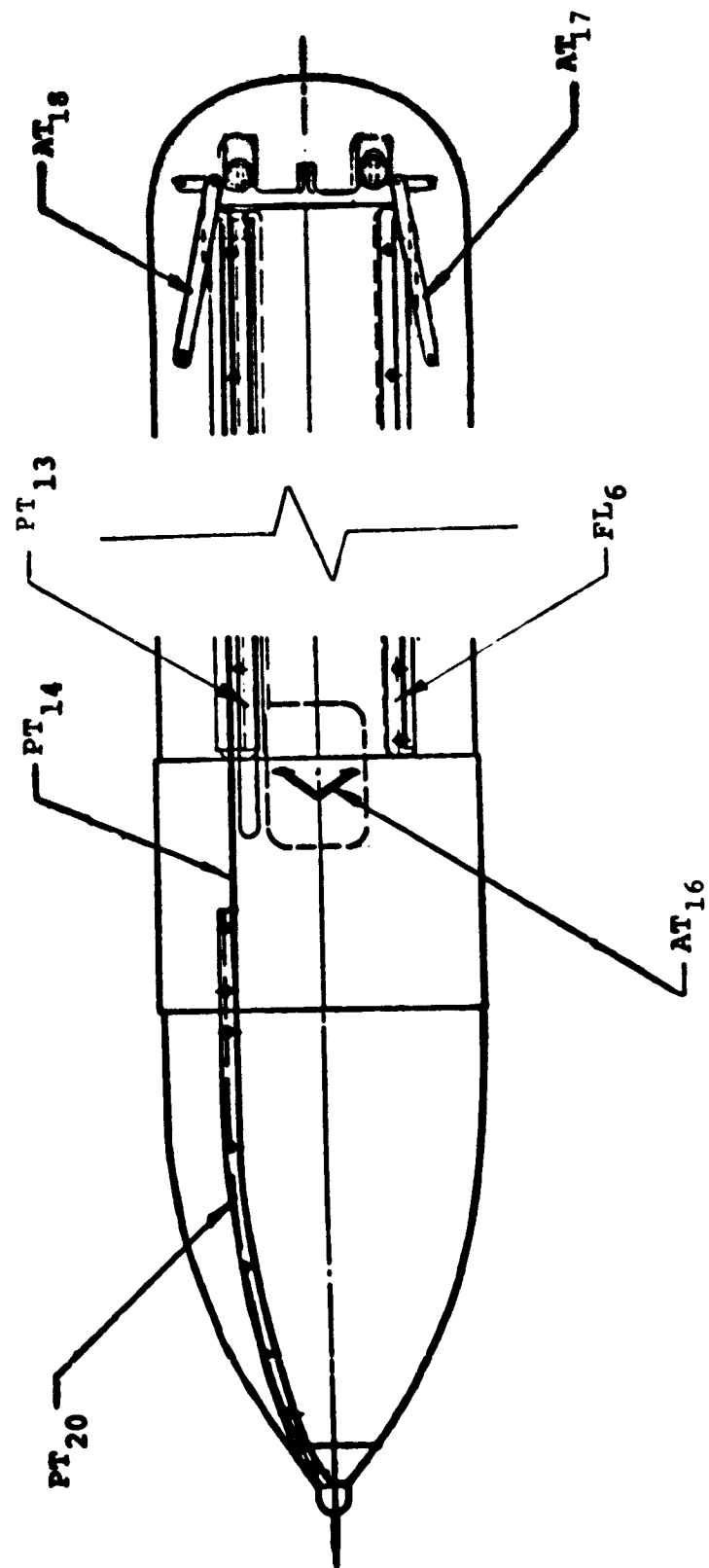


(PORT SIDE VIEW)

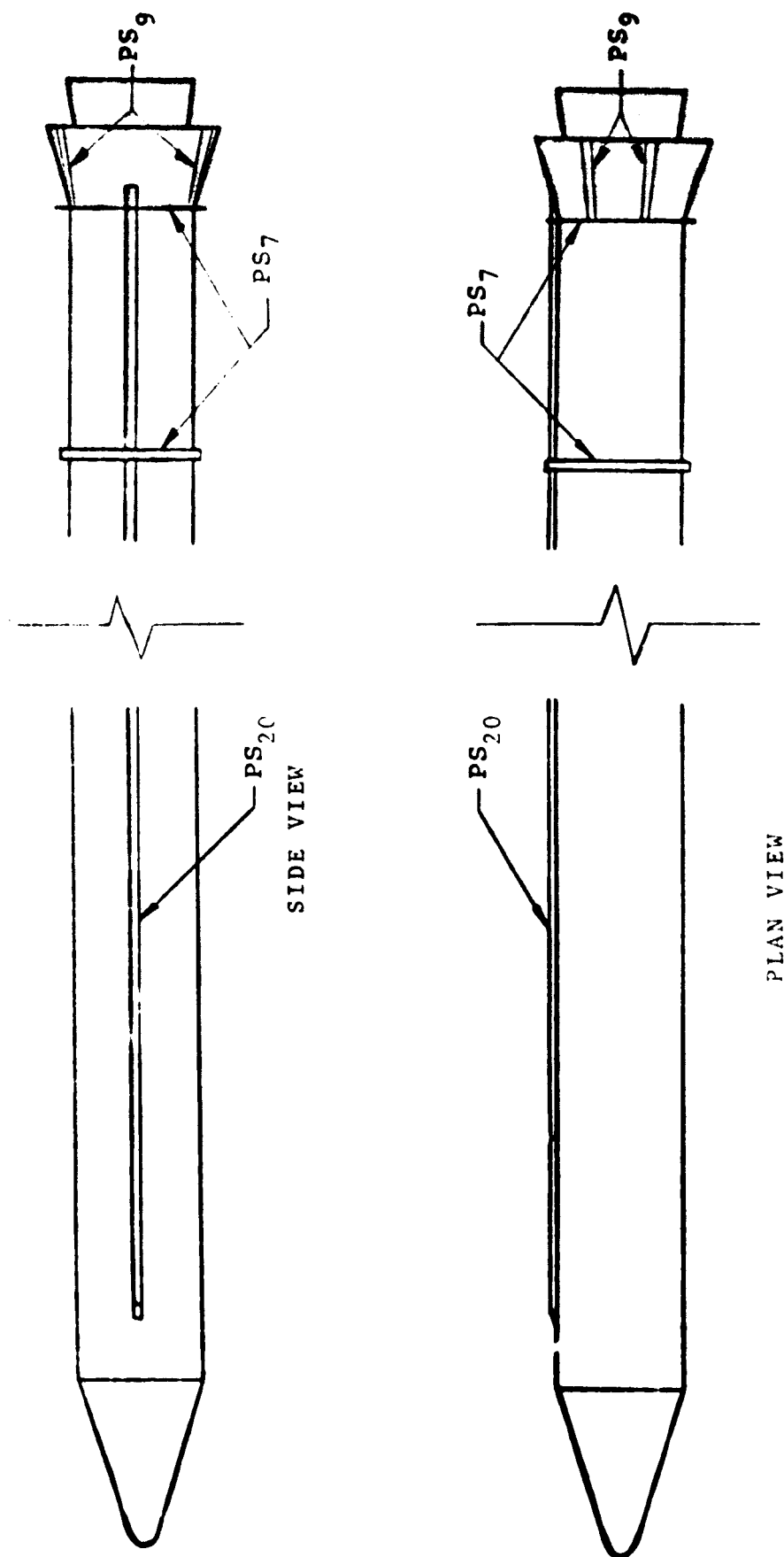


(AFT VIEW)

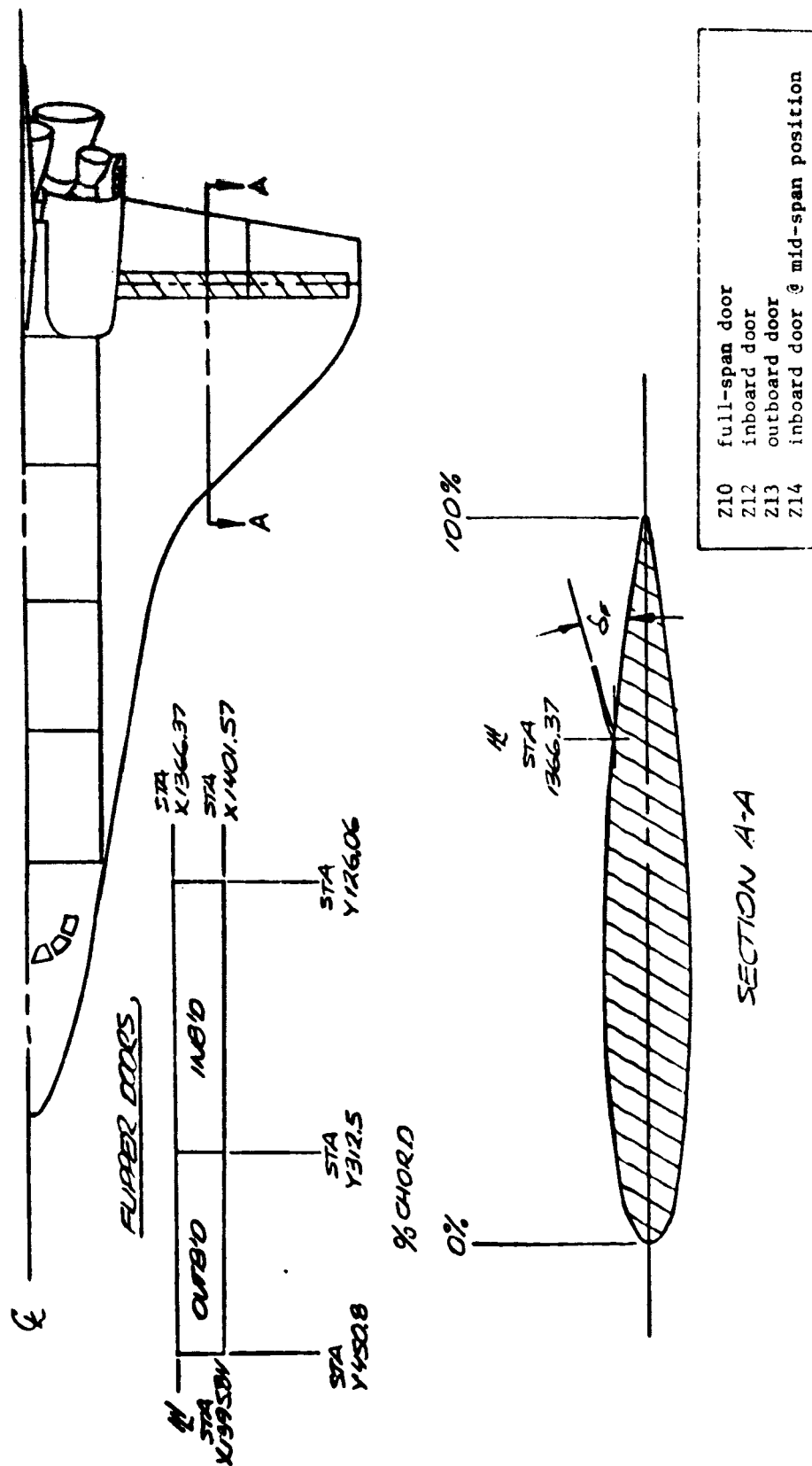
b. Tank (T₂₀) Protuberances
Figure 2. - Continued.



c. Tank (T₂₀) Protuberances (Top View)
Figure 2. - Continued.

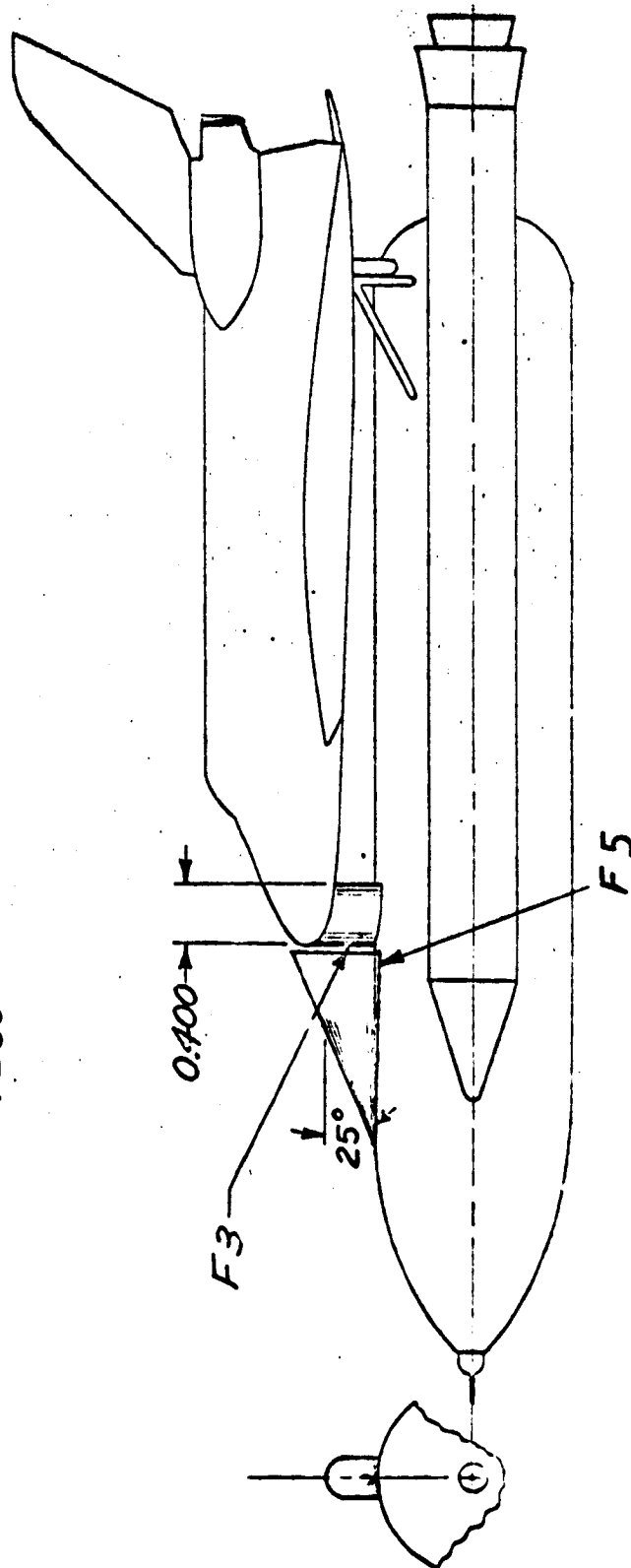
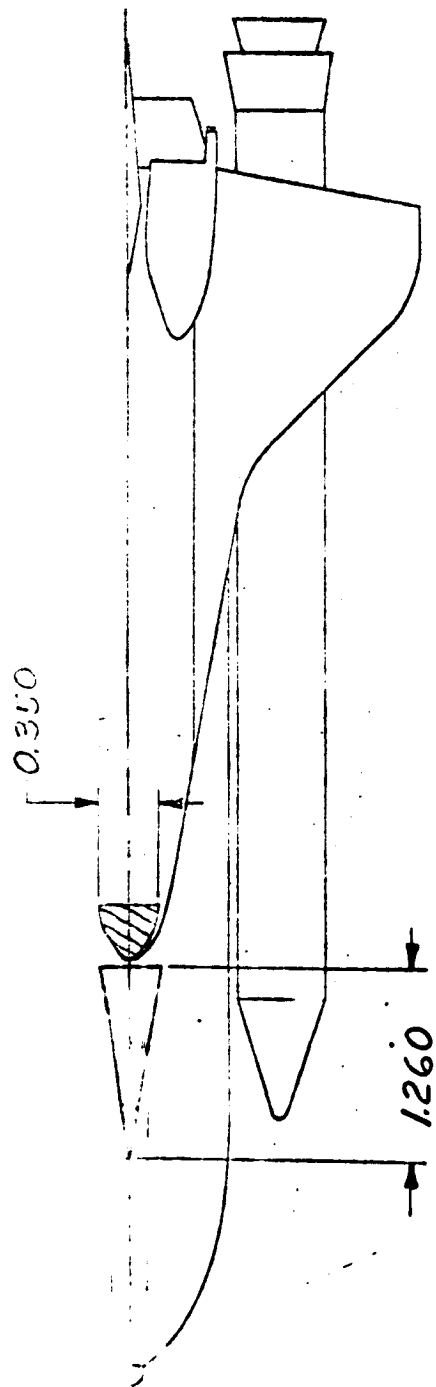


d. SRB (S₂₂) Protuberances
Figure 2. - Continued.

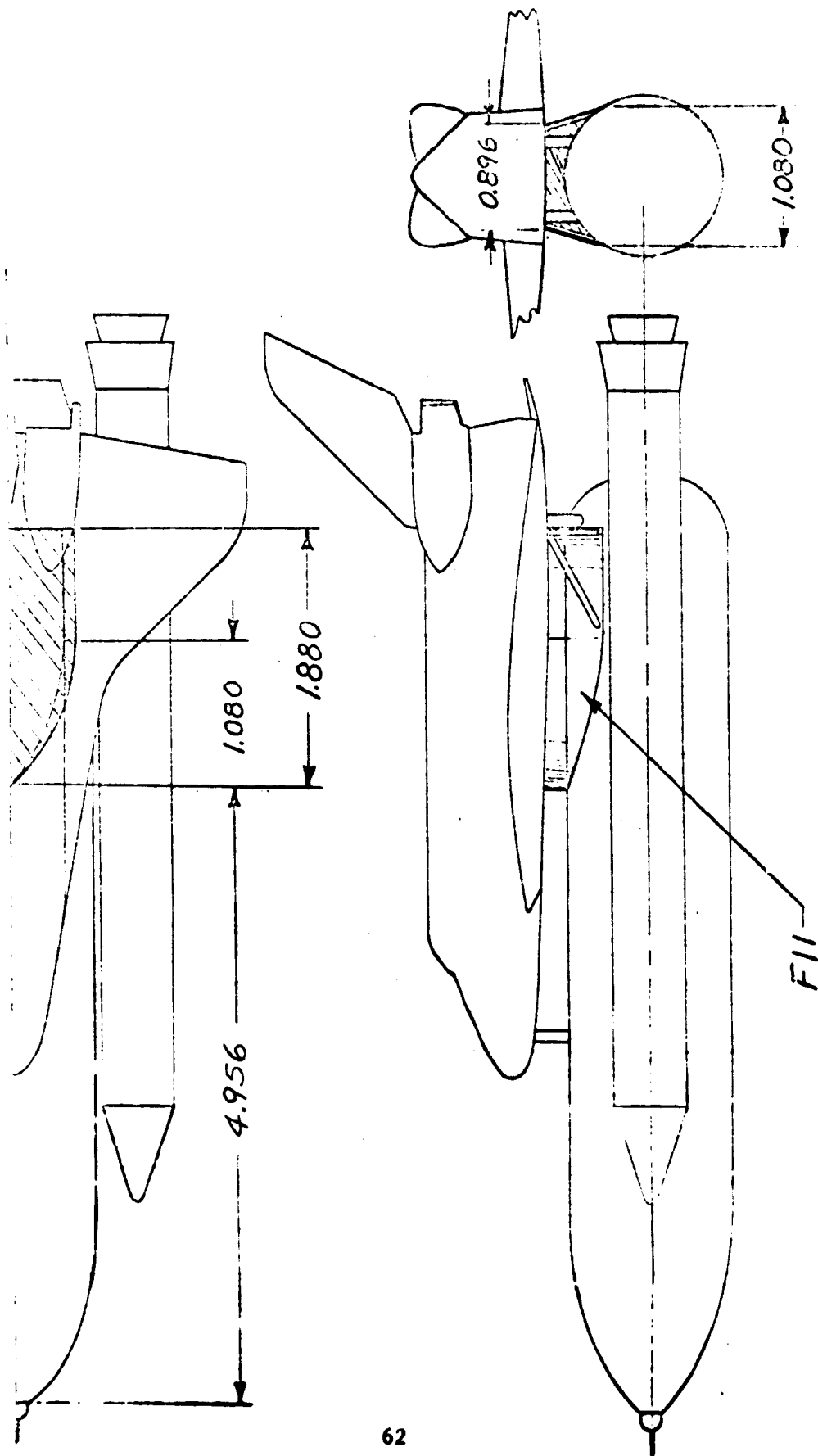


c. Elevon Flipper Doors

Figure 2. - Continued.

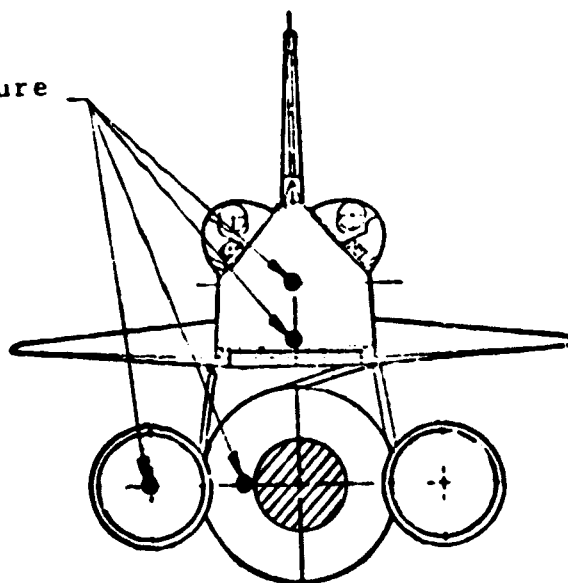


f. Orbiter Nose Fairing, F₃ and Flow Deflectors, F₅
Figure 2. - Continued.



8. Aft Orbiter Attach Structure Fairing, F₁₁
Figure 2. - Continued.

Base Pressure
Tubes



h. Location of Base Pressure Tubes

Figure 2. - Concluded.

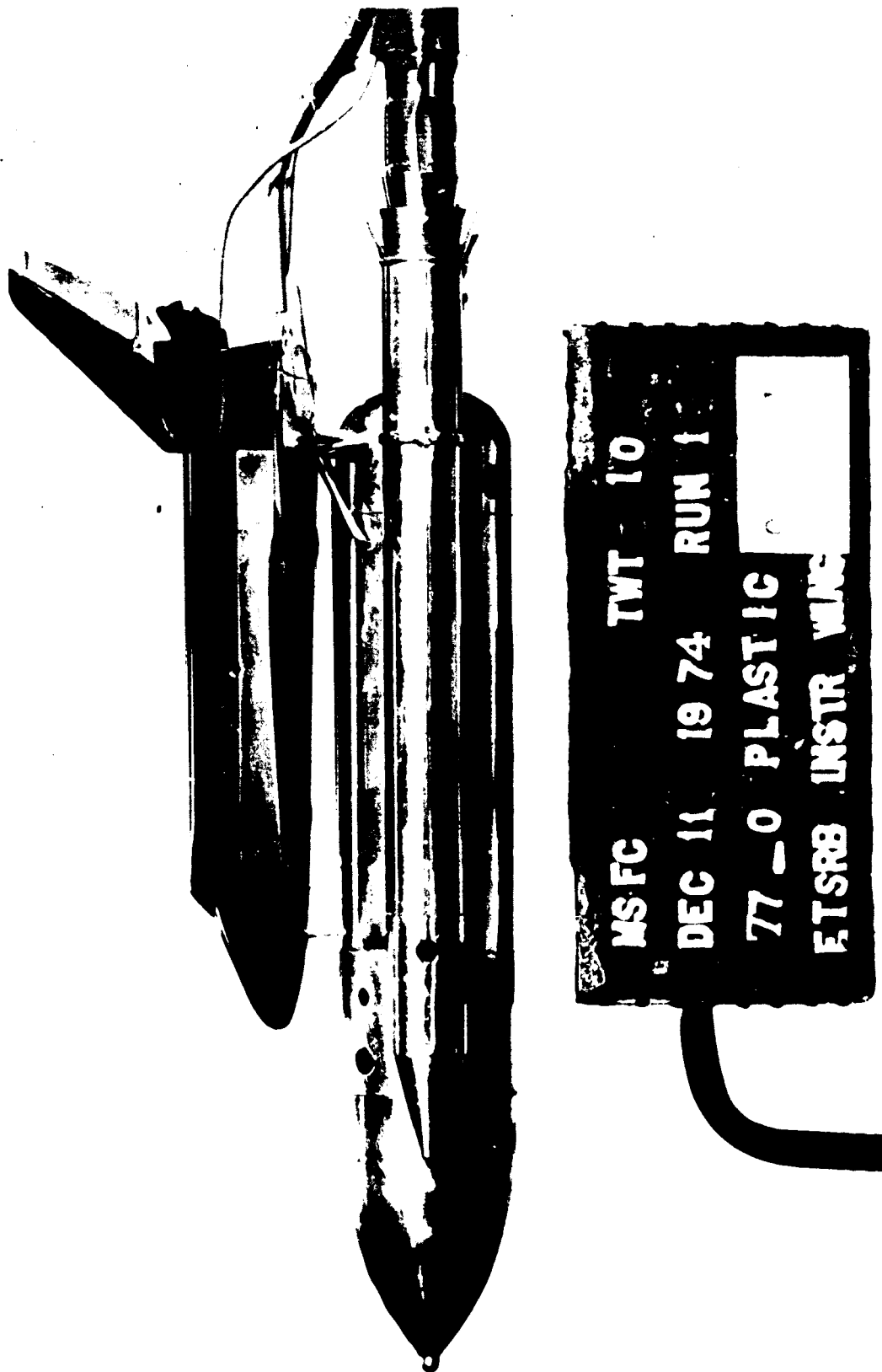


Figure 3. - Model 77-0, 74-TS Installed in MSFC TWT

DATA FIGURES

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATA SETS

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ORBITING .000 .000 .000 .000
FLIPPER 20.000 40.000 60.000 80.000

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[N1K226] MSEC T1610 (A-71) 74-OTS Z13
[N1K228] MSEC T1610 (A-71) 74-OTS Z12
[N1K230] MSEC T1610 (A-71) 74-OTS Z14

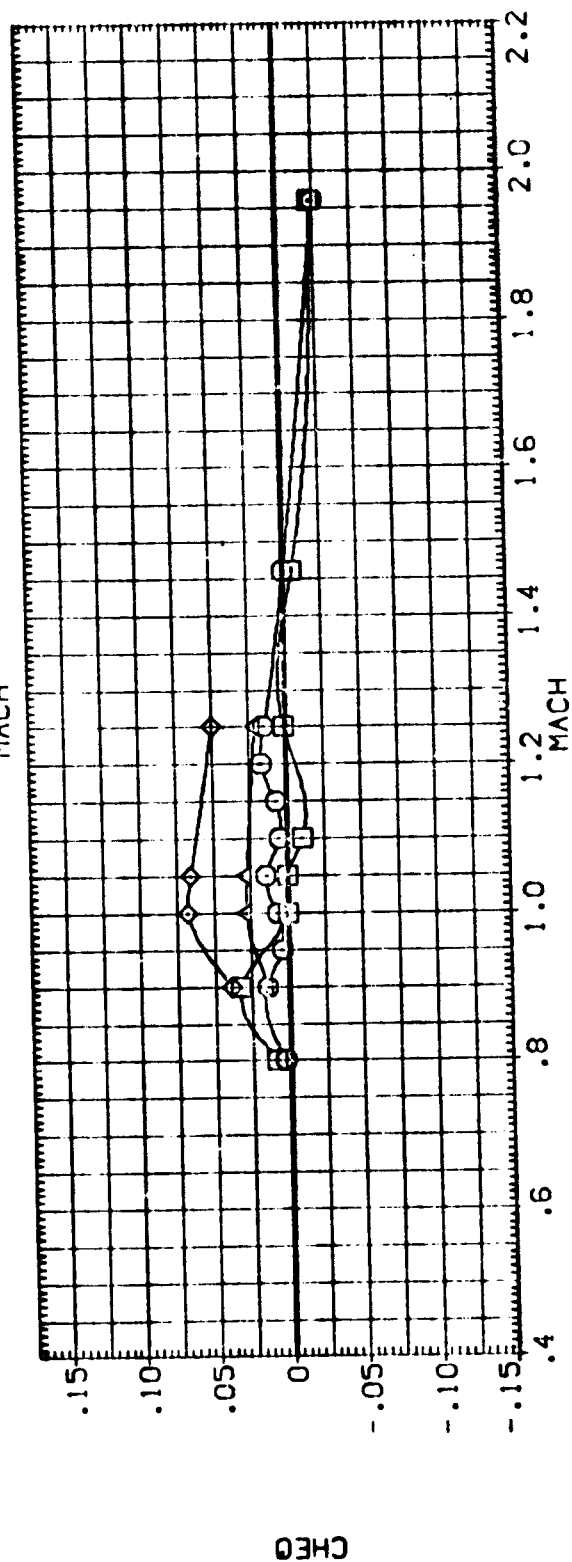
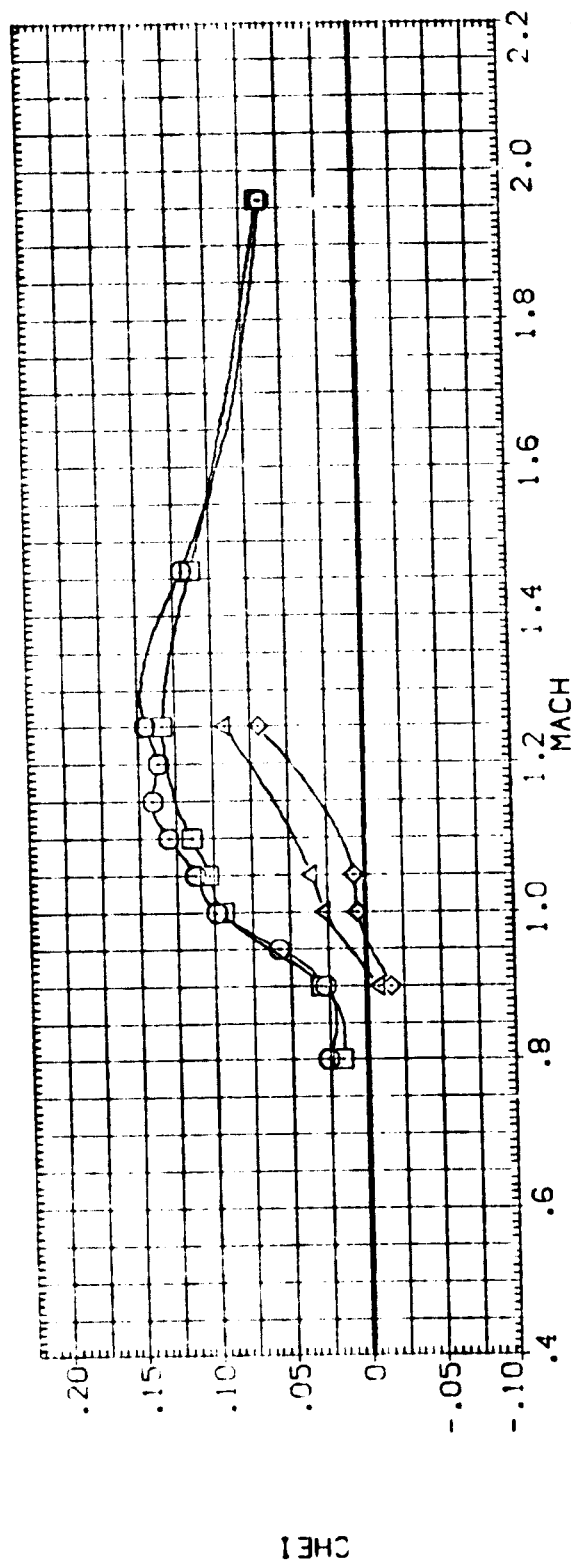


FIGURE 5 EFFECT OF FLIPPER DOOR CONFIGURATION ON ELEVON HINGE MOMENTS(74-OTS)

(A) ALPHA = -6.00

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SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

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.000 .000 40.000
.000 .000 20.000
.000 .000 20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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(N1K226) MSFC TV1610 (1A-71) 74-OTS Z13
(N1K228) MSFC TV1610 (1A-71) 74-OTS Z12
(N1K230) MSFC TV1610 (1A-71) 74-OTS Z14

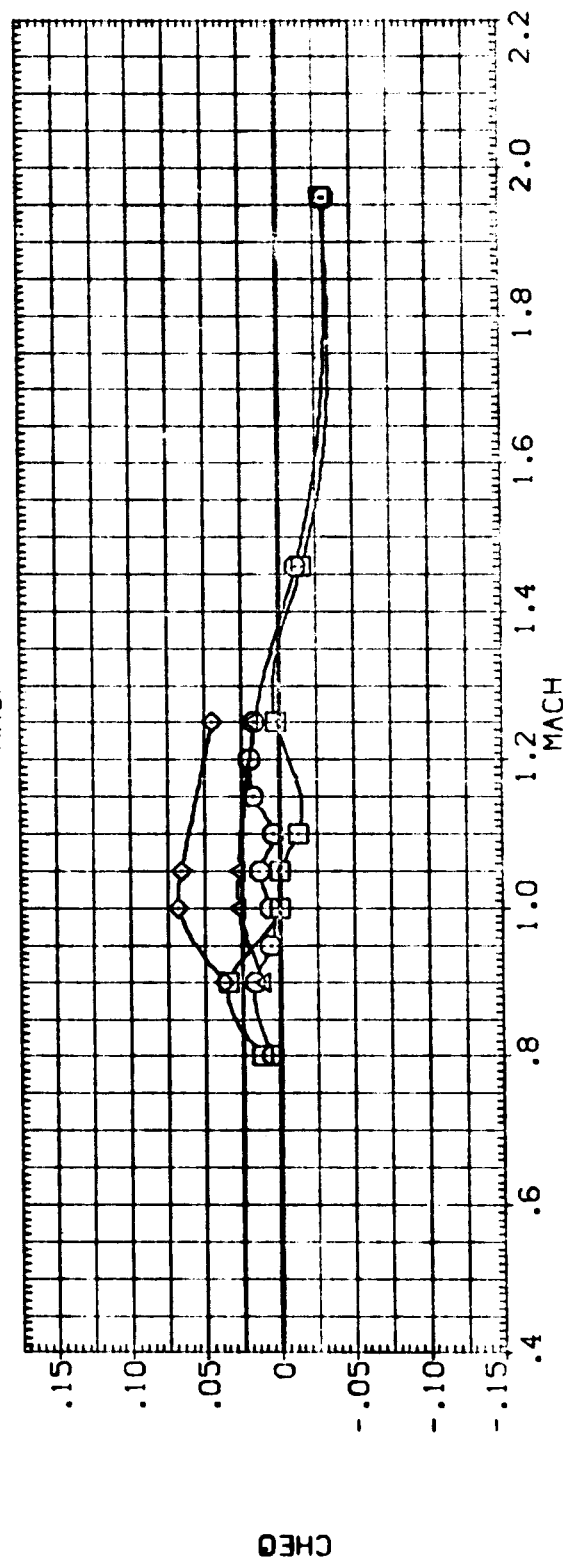
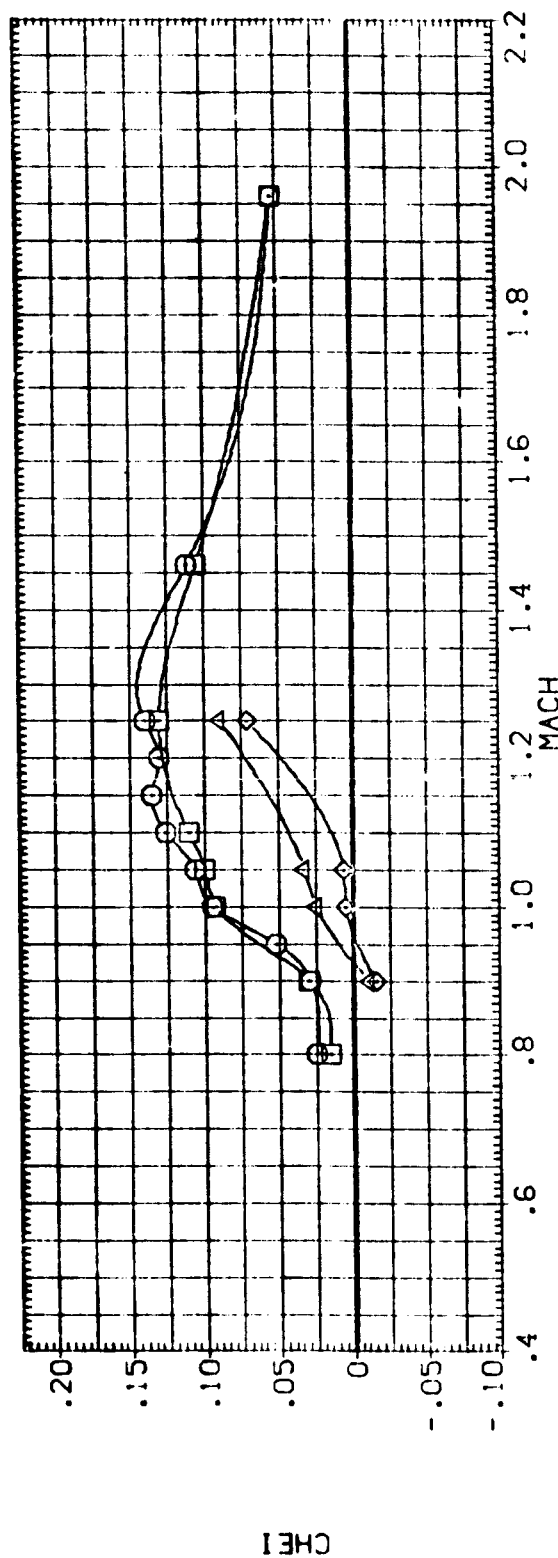


FIGURE 5 EFFECT OF FLIPPER DOOR CONFIGURATION ON ELEVON HINGE MOMENTS(74-OTS)

(B) ALPHA = -4.00

e

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

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DATA SET SYMBOL CONFIGURATION DESCRIPTION
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(N1K226) MSFC TW610 (1A-71) 74-OTS Z13
(N1K229) MSFC TW610 (1A-71) 74-OTS Z12
(N1K230) MSFC TW610 (1A-71) 74-OTS Z14

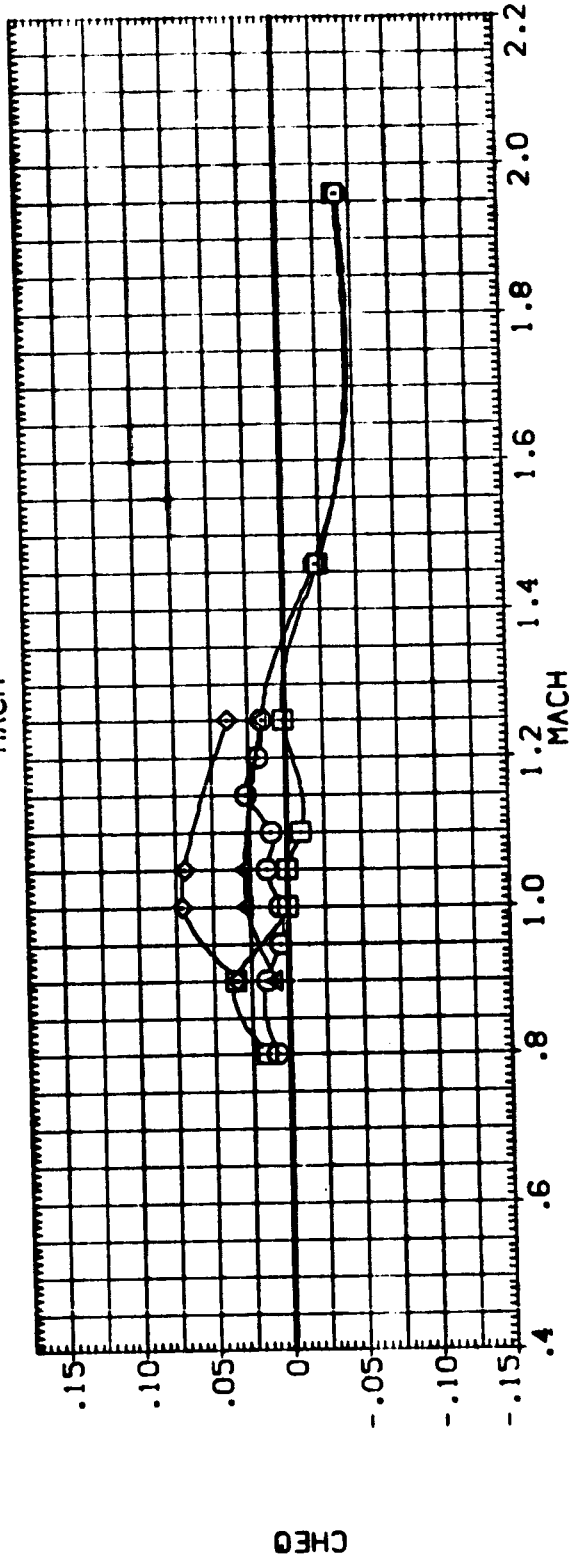
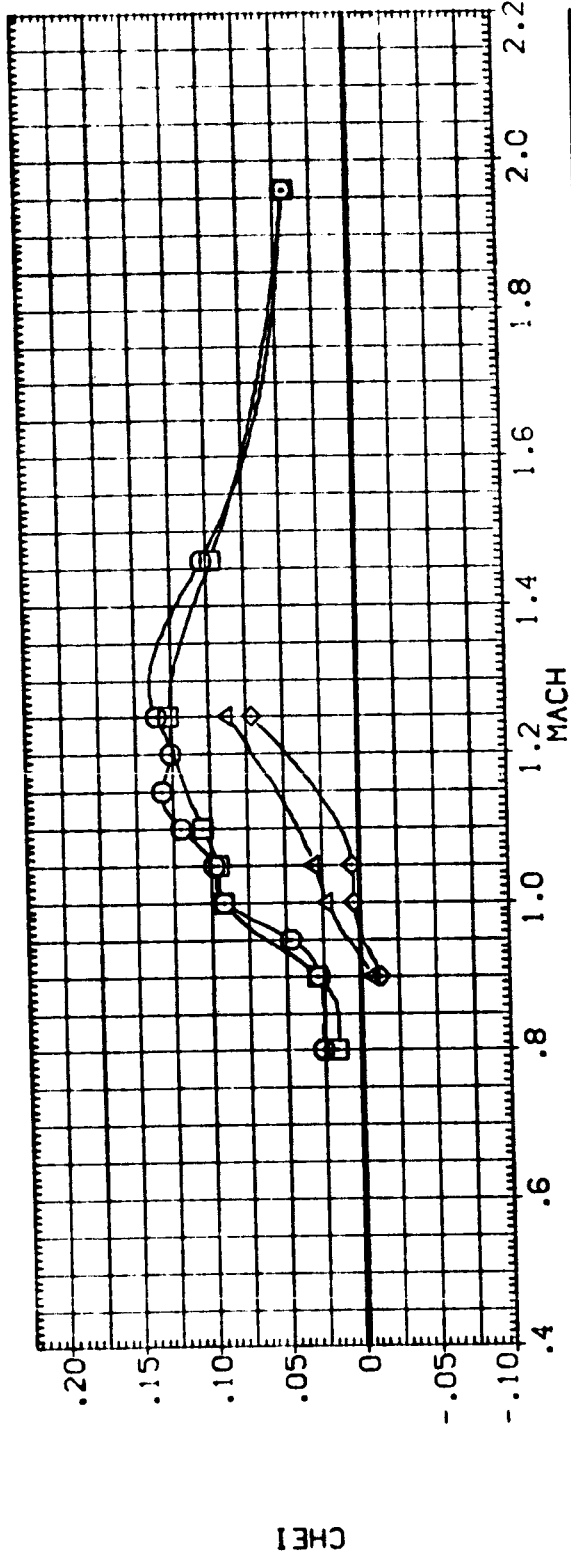


FIGURE 5 EFFECT OF FLIPPER DOOR CONFIGURATION ON ELEVON HINGE MOMENTS(74-OTS)
(C)ALPHA = -2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION
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MSFC TVT610	(IA-71) 74-OTS 213
MSFC TVT610	(IA-71) 74-OTS 212
MSFC TVT610	(IA-71) 74-OTS 214

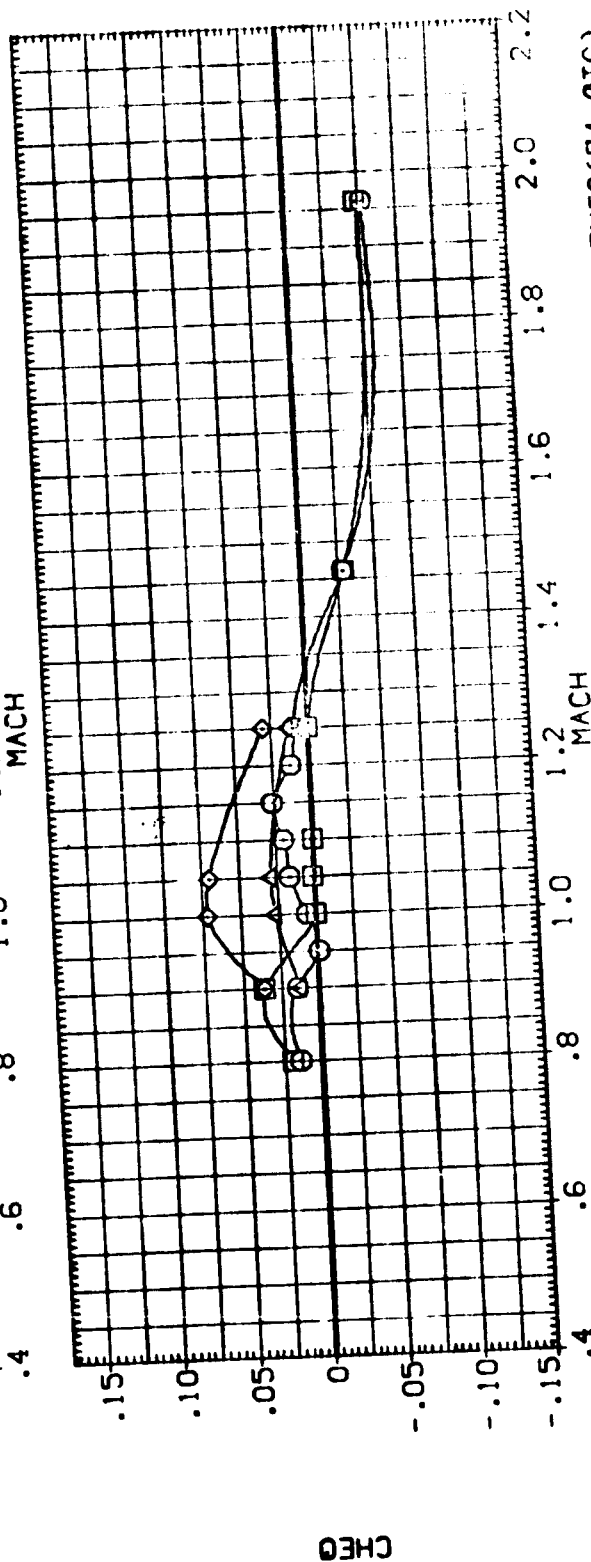
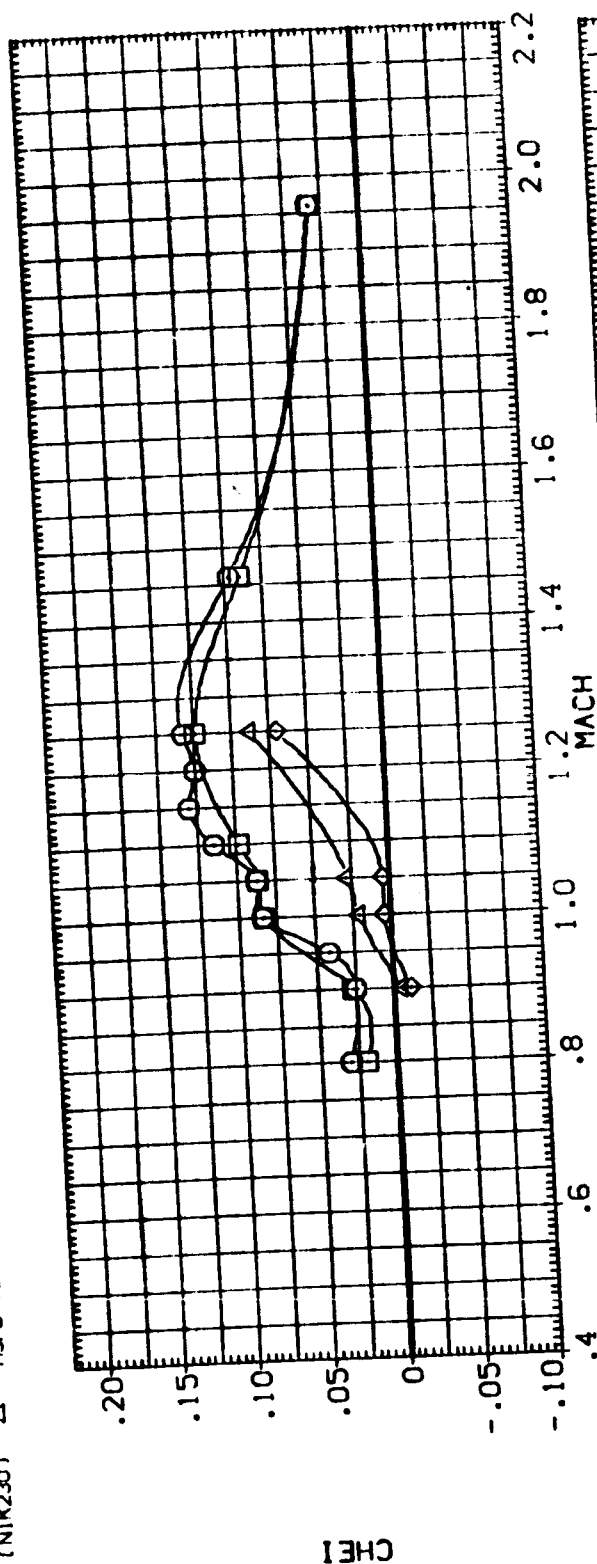


FIGURE 5 EFFECT OF FLIPPER DOOR CONFIGURATION ON ELEVON HINGE MOMENTS(74-OTS)

(D)ALPHA = .00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

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.000 .000 40.000
.000 .000 20.000
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DATA SET SYMBOL CONFIGURATION DESCRIPTION
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(N)K226) MSFC TWT610 (A-71) 74-OTS Z13
(N)K228) MSFC TWT610 (A-71) 74-OTS Z12
(N)K230) MSFC TWT610 (A-71) 74-OTS Z14

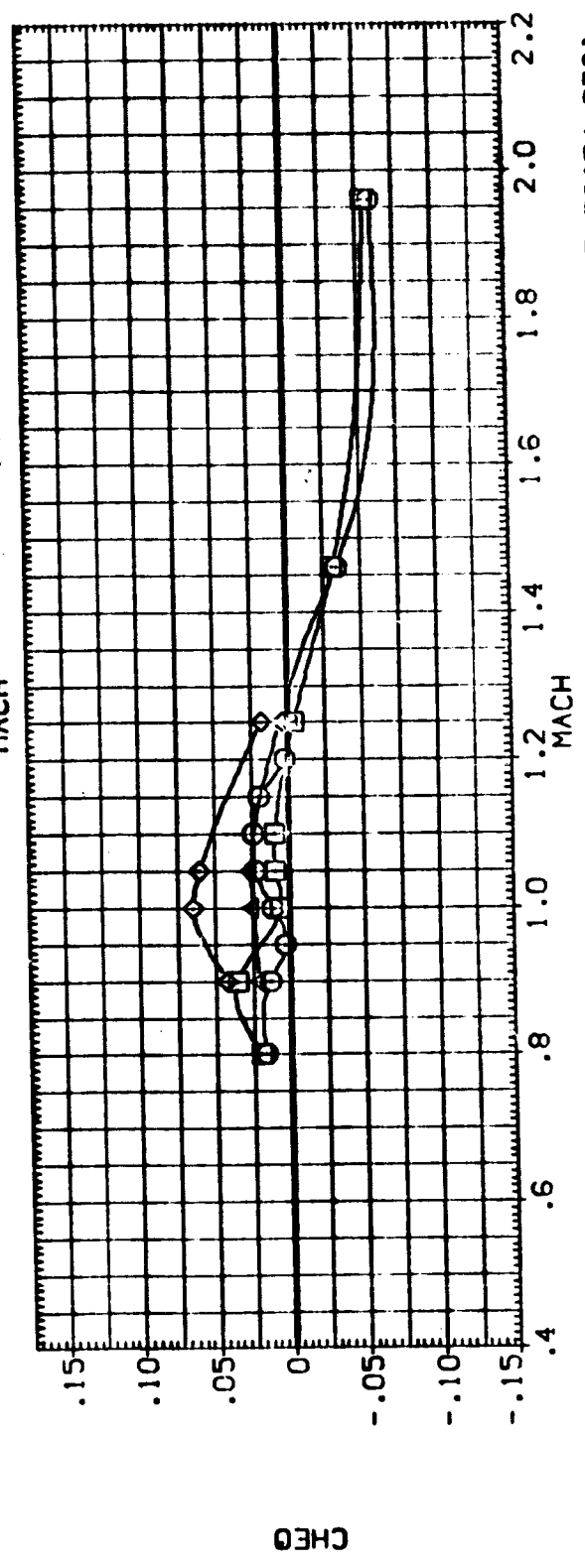
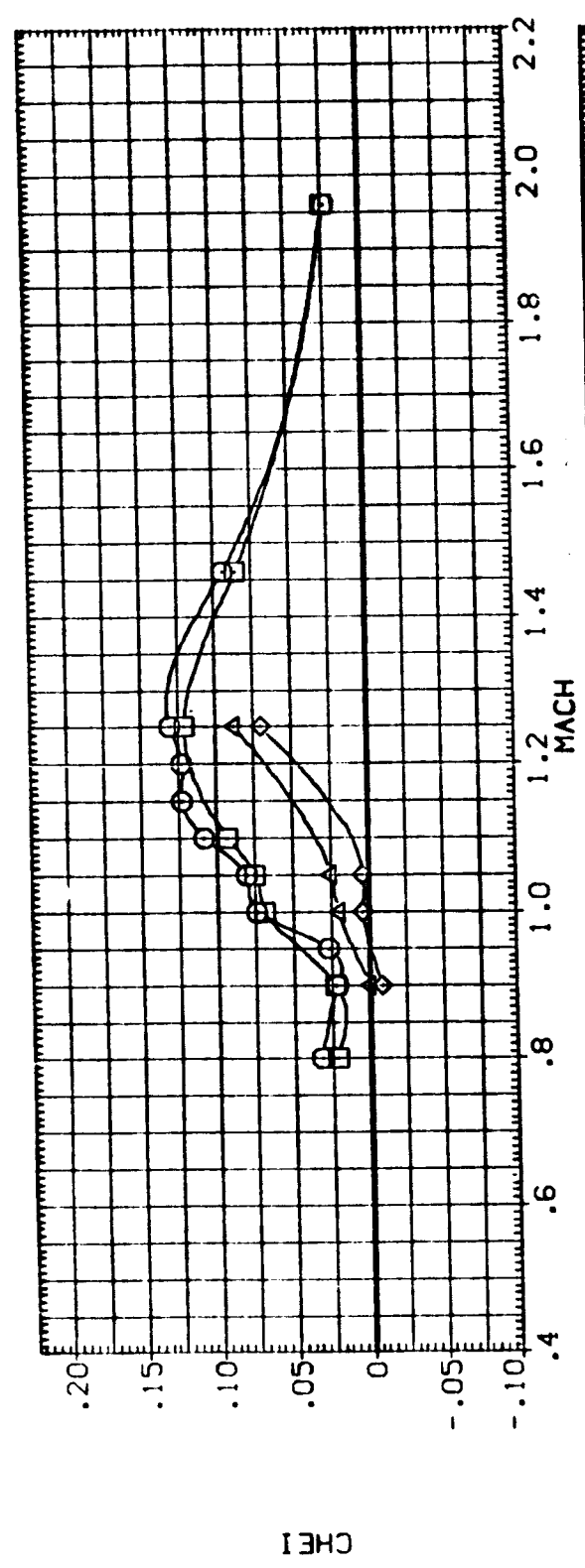


FIGURE 5 EFFECT OF FLIPPER DOOR CONFIGURATION ON ELEVON HINGE MOMENTS(74-OTS)

(E)ALPHA = 2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION
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(N1K226)	MSFC TWT610 (1A-71) 74-OTS Z13
(N1K228)	MSFC TWT610 (1A-71) 74-OTS Z12
(N1K230)	MSFC TWT610 (1A-71) 74-OTS Z14

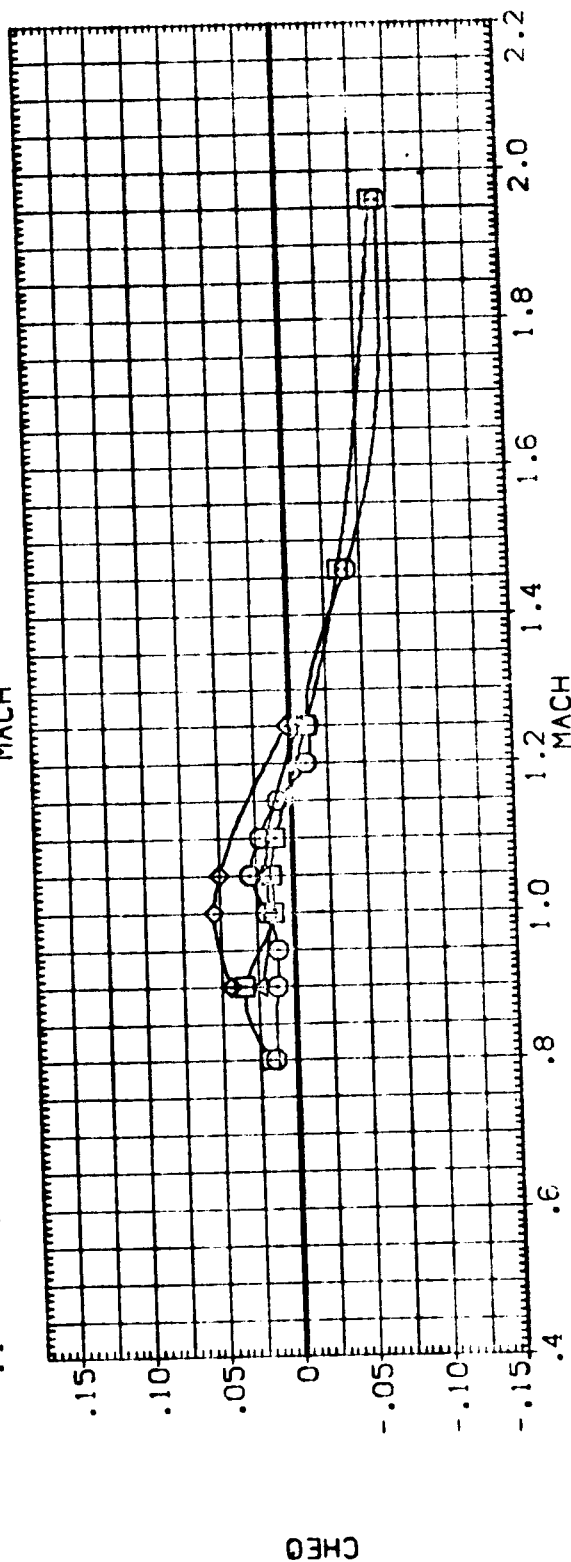
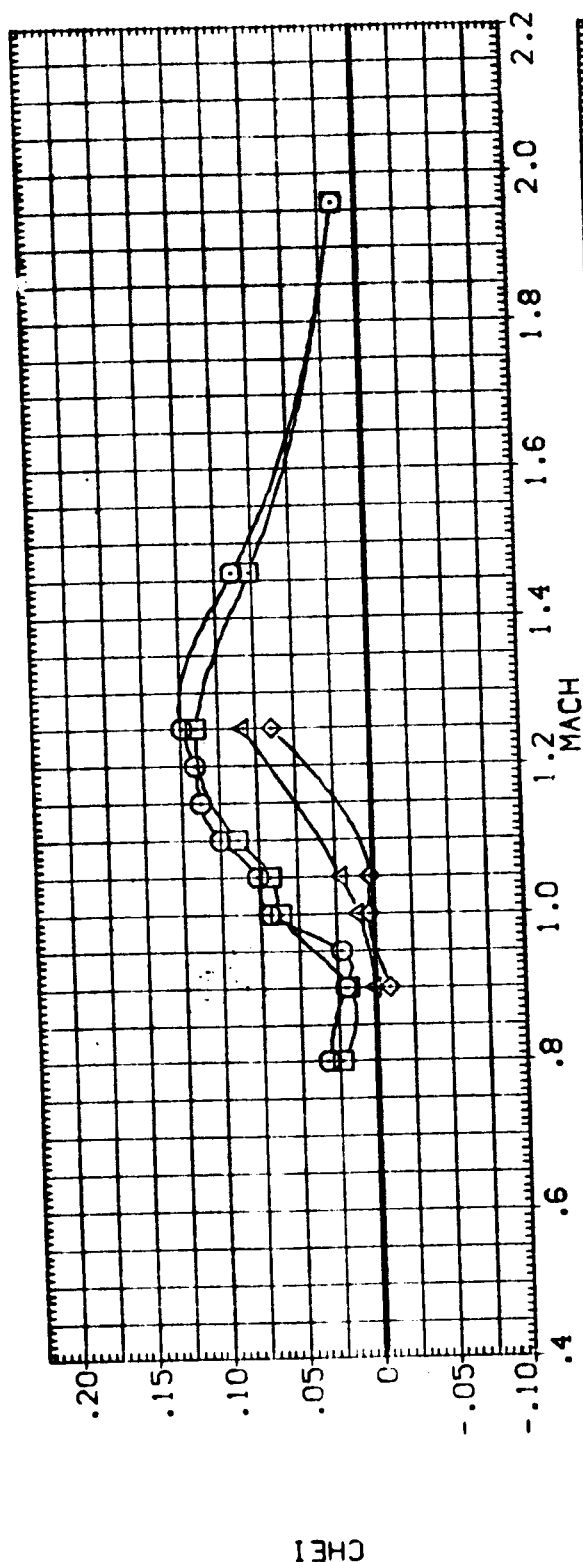


FIGURE 5 EFFECT OF FLIPPER DOOR CONFIGURATION ON ELEVON HINGE MOMENTS(74-OTS)

(F)ALPHA = 4.00

C

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

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ORBNIC .000 .000 .000
FLIPDR 20.000 40.000 20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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(N)K226) MSFC TVT610 (1A-71) 74-OTS Z13
(N)K229) MSFC TVT610 (1A-71) 74-OTS Z12
(N)K230) MSFC TVT610 (1A-71) 74-OTS Z14

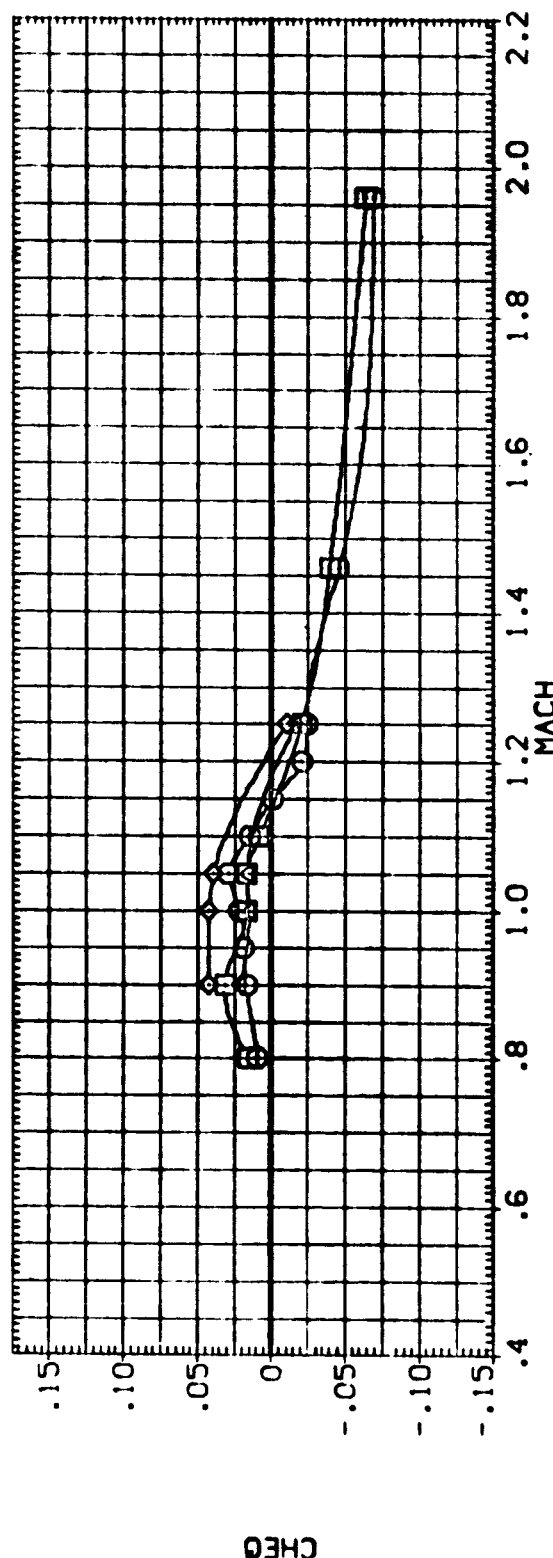
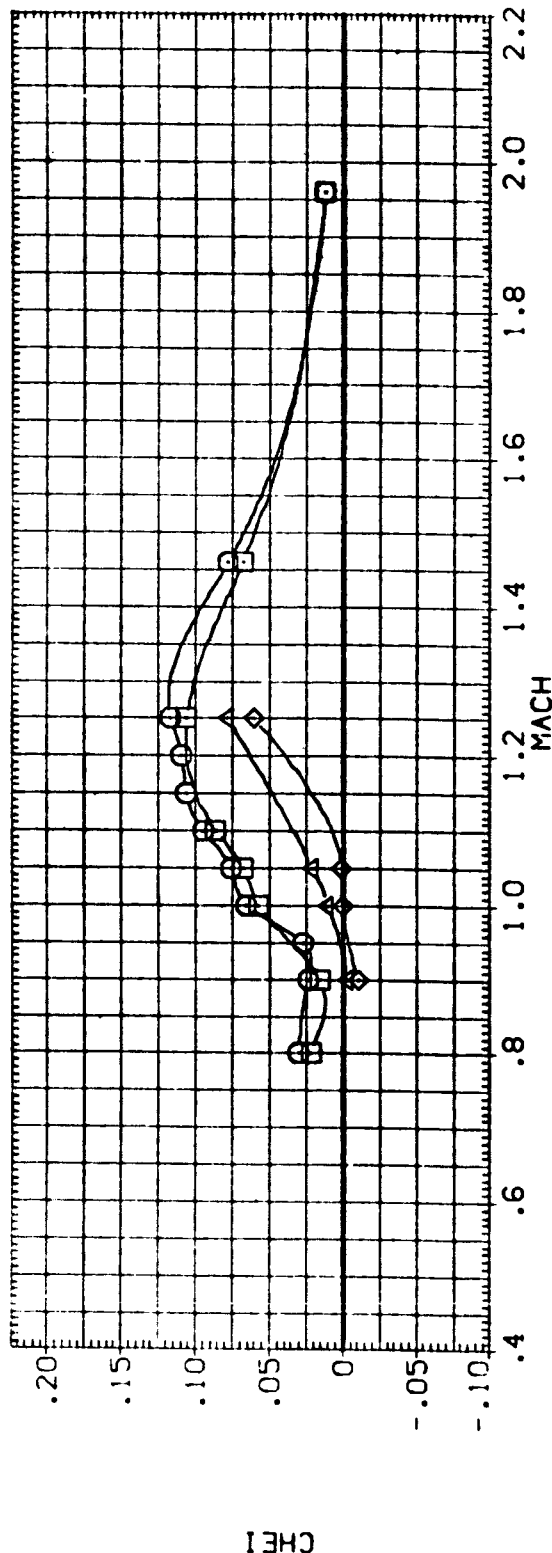


FIGURE 5 EFFECT OF FLIPPER DOOR CONFIGURATION ON ELEVON HINGE MOMENTS(74-OTS)

(G)ALPHA = 5.70

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

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ORBITING .000 .000 .000 .000 .000 .000 .000 .000
FLIPPER .000 .000 .000 .000 .000 .000 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
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(NIK203) MSFC TVT610 (A-71) 77-OTS Z10
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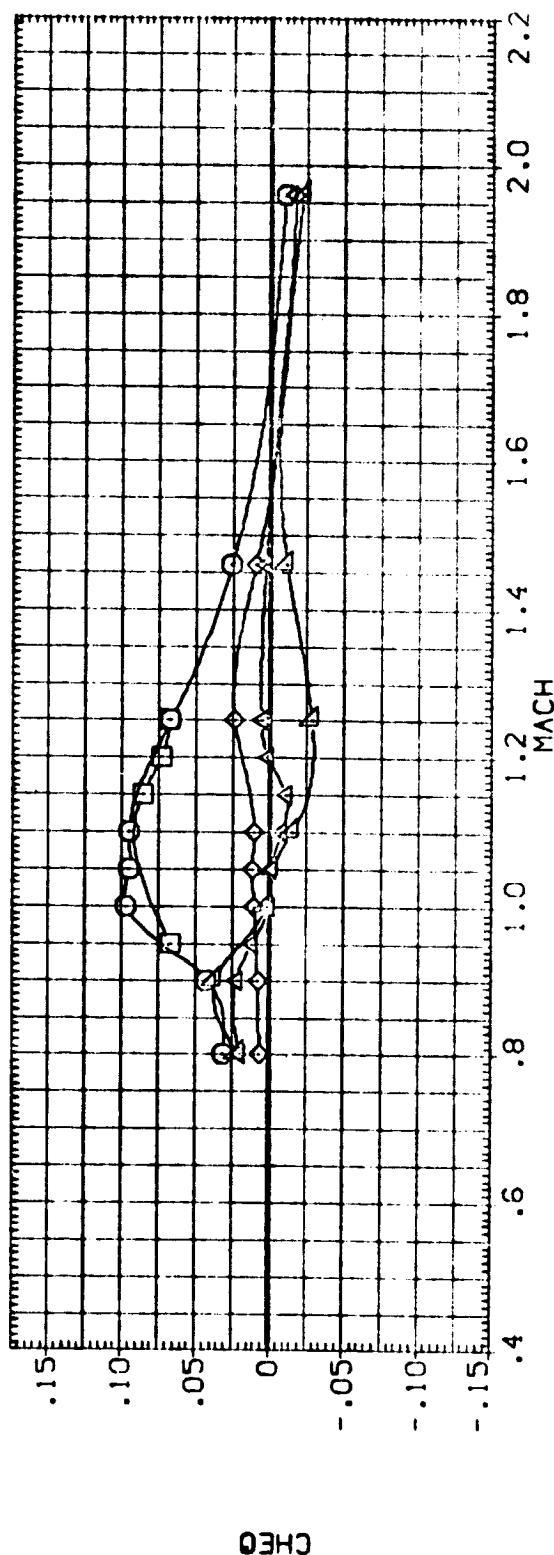
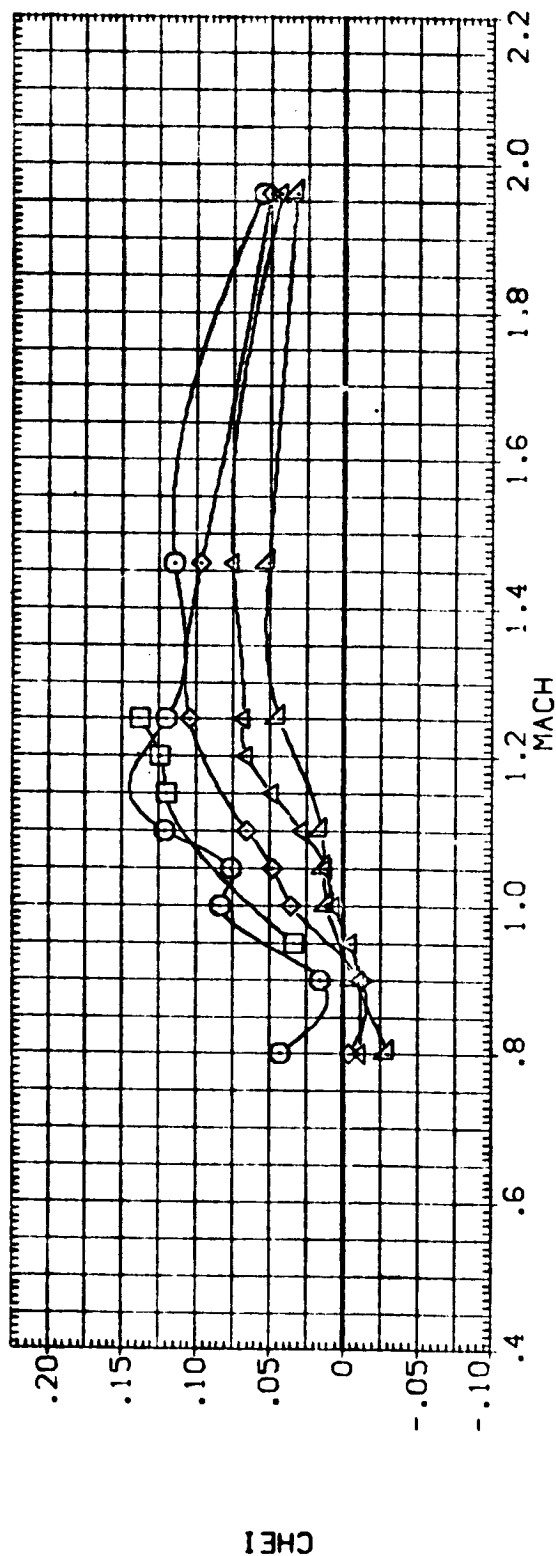


FIGURE 4 EFFECT OF FLIPPER DOOR DEFLECTION ON ELEVON HINGE MOMENTS (74-OTS)

(A) ALPHA = -6.00





e

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPOR
.000 .000 .000
.000 .000 .000
.000 .000 10.000
.000 .000 20.000
.000 .000 40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K201) MSFC TVT610 (1A-71) 74-OTS (STEEL)
(N1K207) MSFC TVT610 (1A-71) 74-OTS Z10
(N1K210) MSFC TVT610 (1A-71) 77-OTS Z10
(N1K215) MSFC TVT610 (1A-71) 74-OTS Z10
(N1K223) MSFC TVT610 (1A-71) 74-OTS Z10

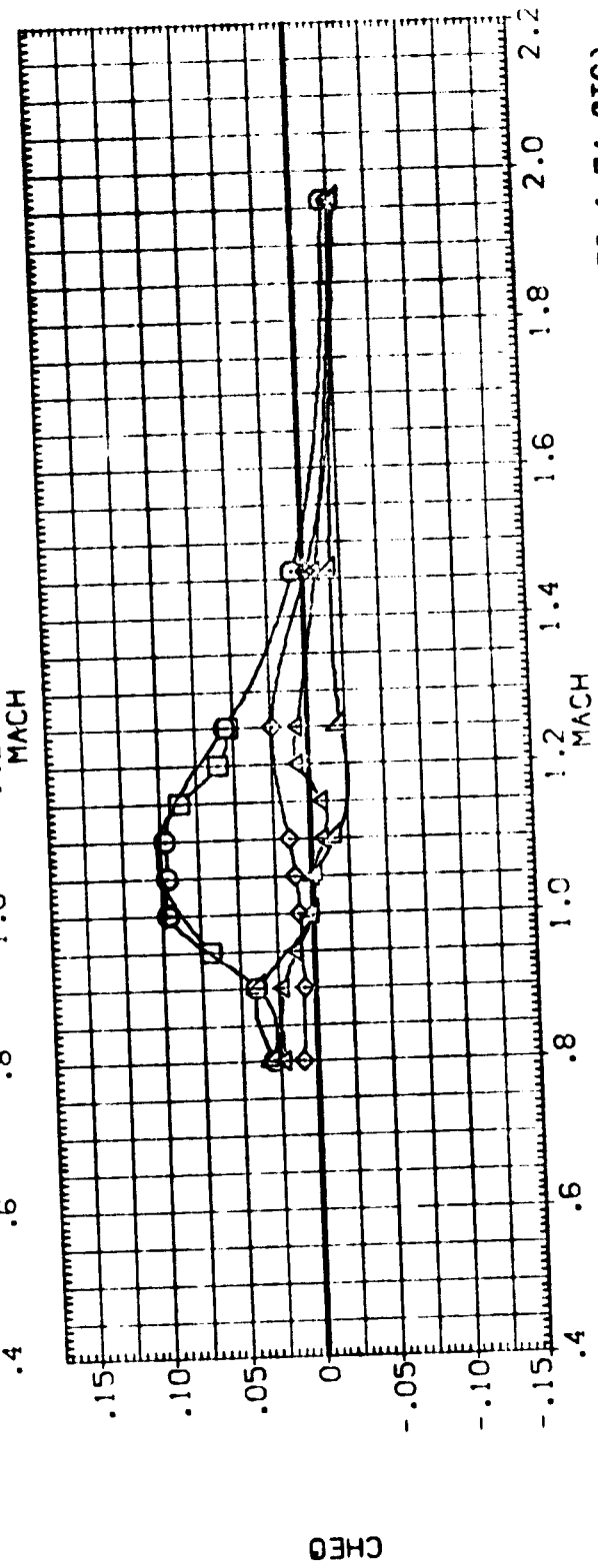
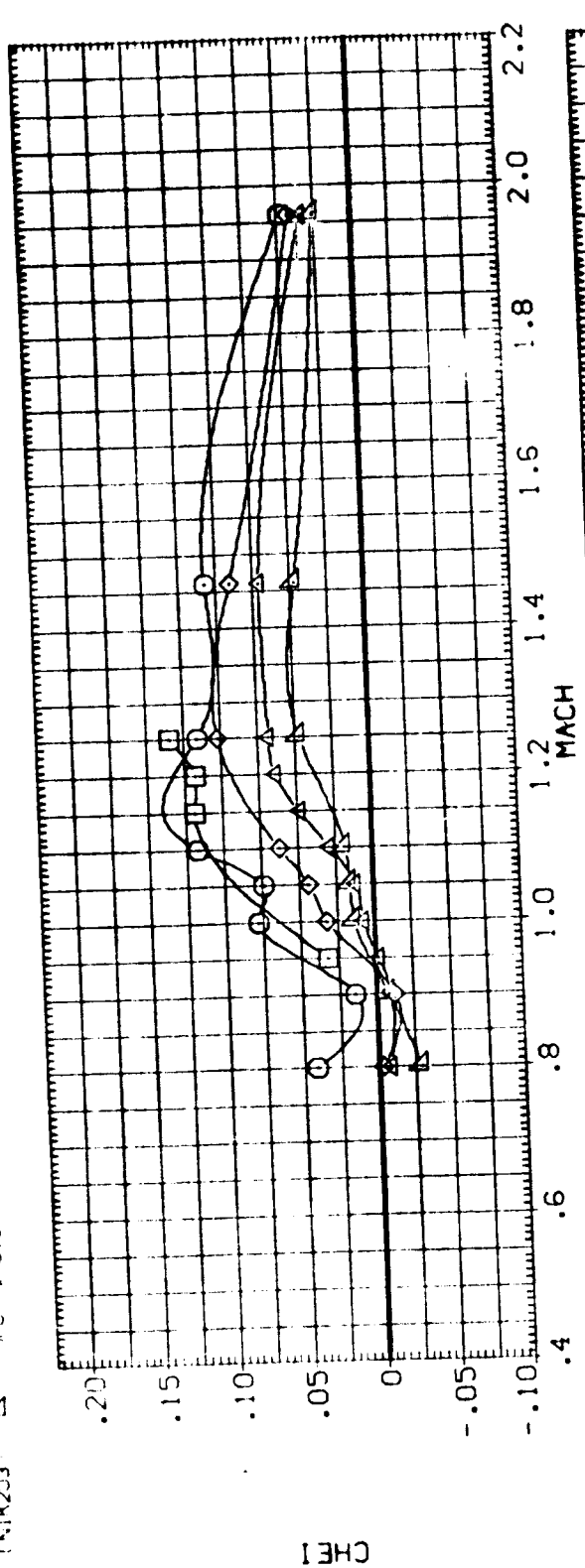


FIGURE 4 EFFECT OF FLIPPER DOOR DEFLECTION ON ELEVON HINGE MOMENTS (74-OTS)
(B)ALPHA = -4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
D8BINC .000
FLIPDR .000
10.000
20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK201) MSFC TVT610 (IA-71) 74-OTS (STEEL)
(NIK207) MSFC TVT610 (IA-71) 74-OTS Z10
(NIK210) MSFC TVT610 (IA-71) 77-0.74-TS
(NIK205) MSFC TVT610 (IA-71) 74-OTS Z10
(NIK203) MSFC TVT610 (IA-71) 74-OTS Z10

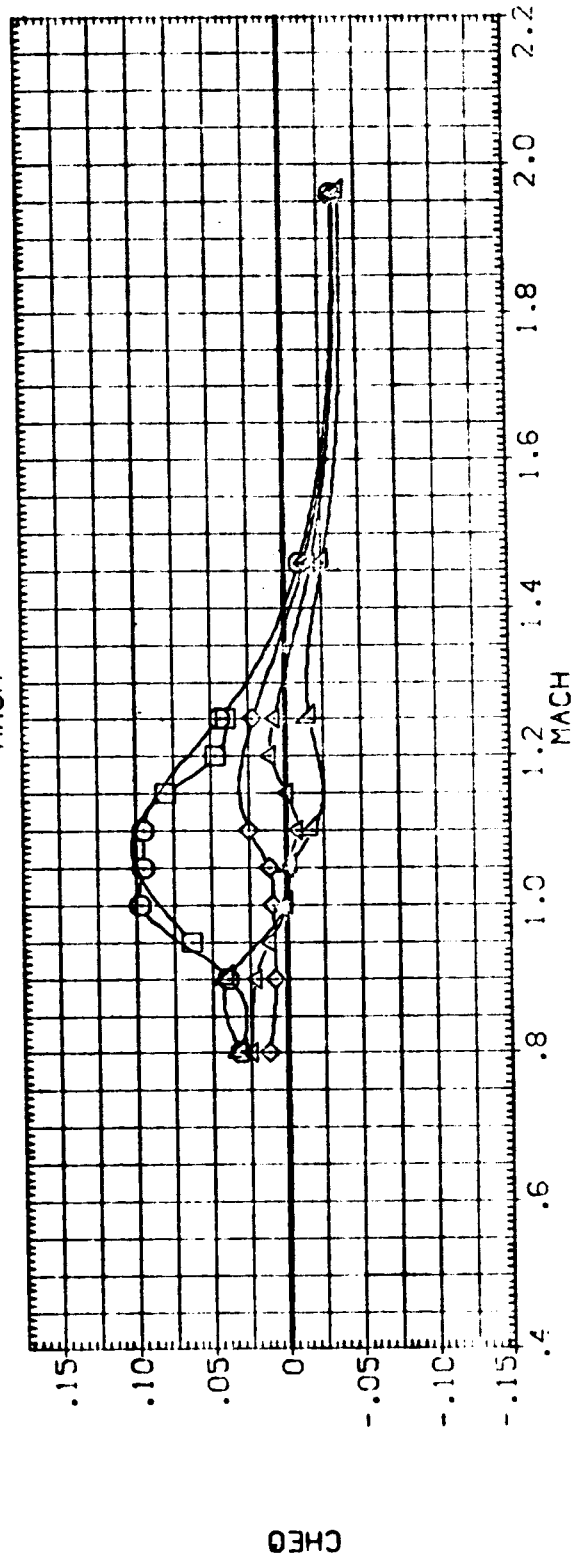
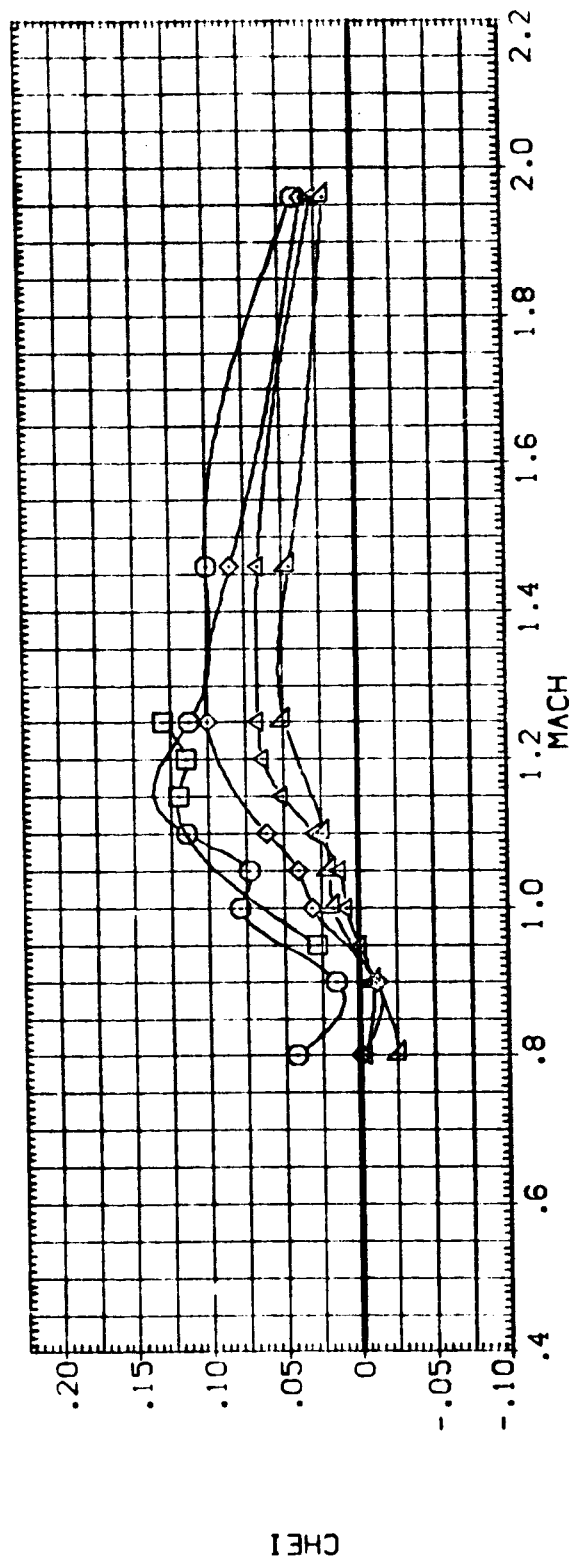


FIGURE 4 EFFECT OF FLIPPER DOOR DEFLECTION ON ELEVON HINGE MOMENTS (74-OTS)

(C)ALPHA = -2.00

e

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPDR

.000 .000 .000

.000 .000 .000

.000 .000 10.000

.000 .000 20.000

.000 .000 40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(N1K201) MSFC TWT610 (1A-71) 74-OTS (STEEL)

(N1K202) MSFC TWT610 (1A-71) 74-OTS Z10

(N1K203) MSFC TWT610 (1A-71) 77-0.74-TS

(N1K204) MSFC TWT610 (1A-71) 74-OTS Z10

(N1K205) MSFC TWT610 (1A-71) 74-OTS Z10

(N1K206) MSFC TWT610 (1A-71) 74-OTS Z10

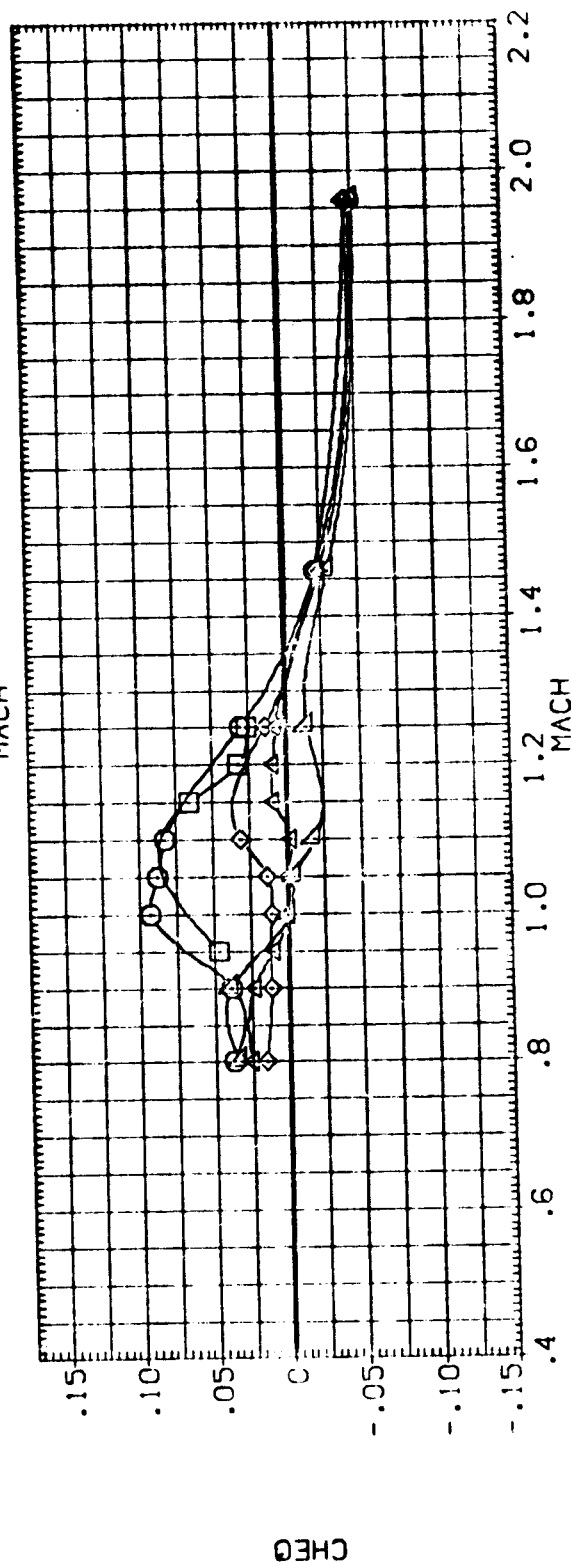
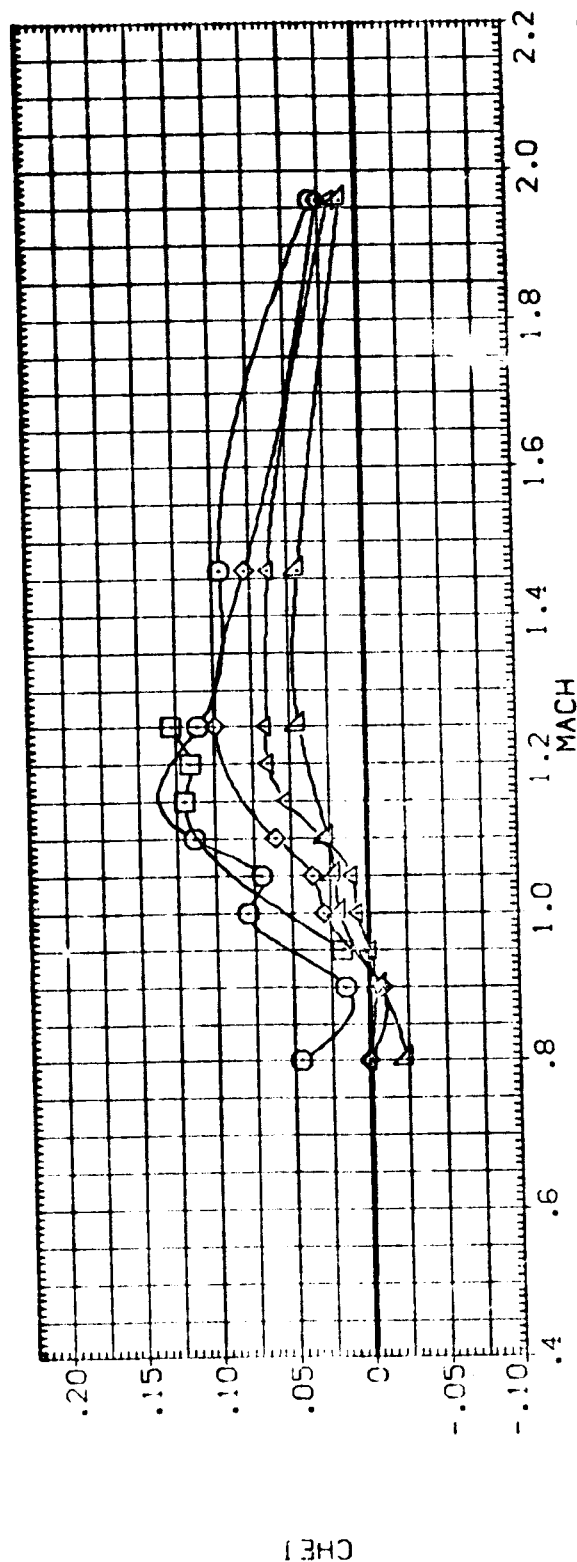


FIGURE 4 EFFECT OF FLIPPER DOOR DEFLECTION ON ELEVON HINGE MOMENTS (74-OTS)

(D)ALPHA = .00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000 .000 .000 .000 .000
ORBIT .000 .000 .000 .000 .000 .000
FLIPOR .000 .000 .000 .000 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N)K201) MSFC TVT610 (IA-71) 74-OTS (STEEL)
(N)K207) MSFC TVT610 (IA-71) 74-OTS Z10
(N)K210) MSFC TVT610 (IA-71) 77-0.74-TS
(N)K205) MSFC TVT610 (IA-71) 74-OTS Z10
(N)K203) MSFC TVT610 (IA-71) 74-OTS Z10

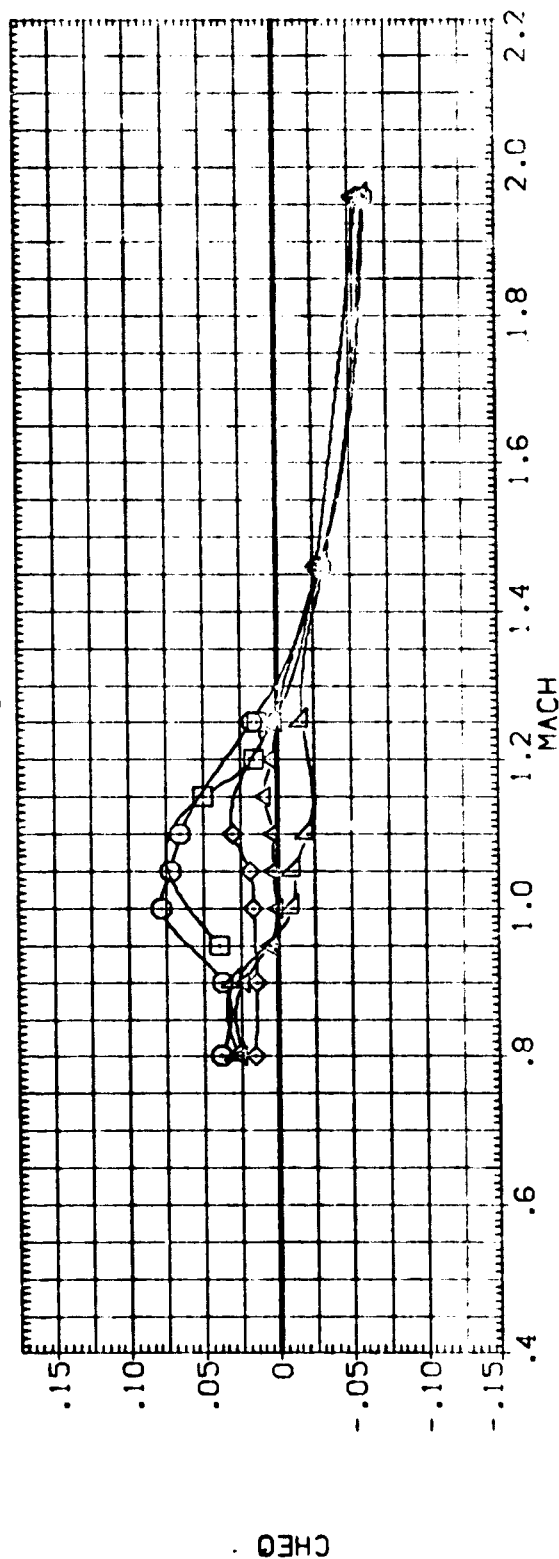
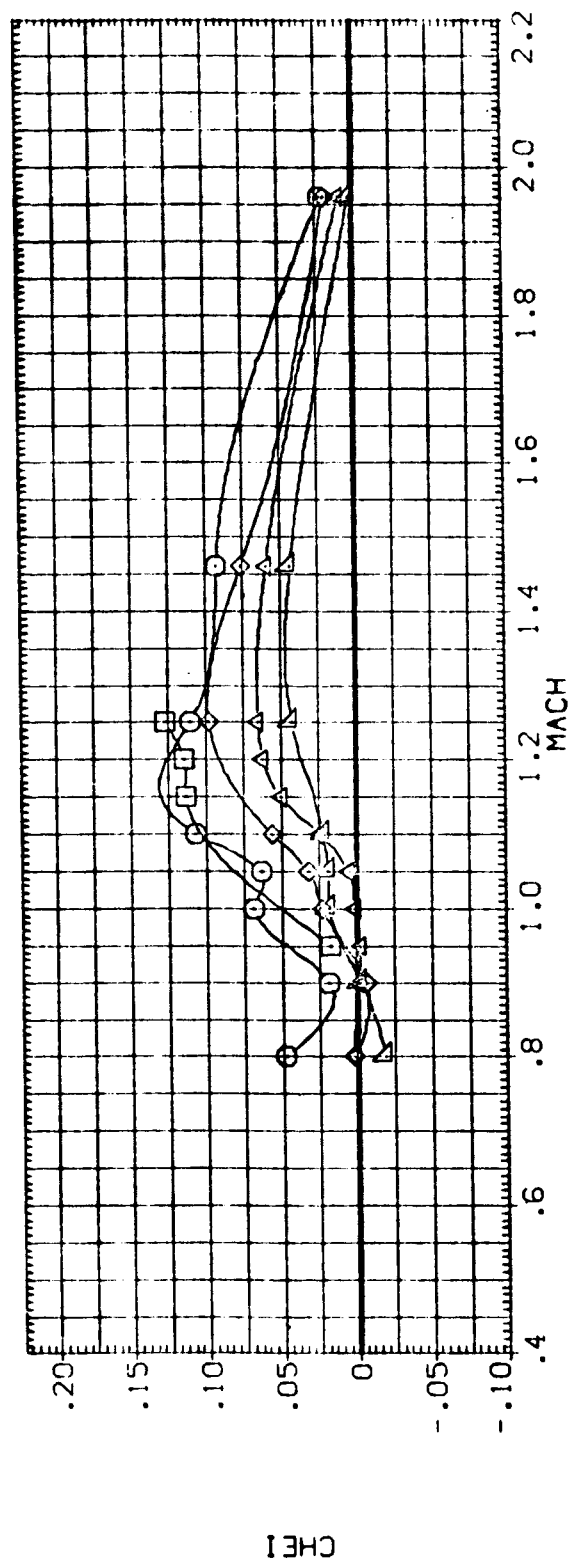


FIGURE 4 EFFECT OF FLIPPER DOOR DEFLECTION ON ELEVON HINGE MOMENTS (74-OTS)

(E)ALPHA = 2.00

e

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBITING .000
FLIPPER .000
10.000
20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K201) MSFC TWT610 (1A-71) 74-OTS (STEEL)
(N1K207) MSFC TWT610 (1A-71) 74-OTS Z10
(N1K210) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K203) MSFC TWT610 (1A-71) 74-OTS Z10
(N1K203) MSFC TWT610 (1A-71) 74-OTS Z10

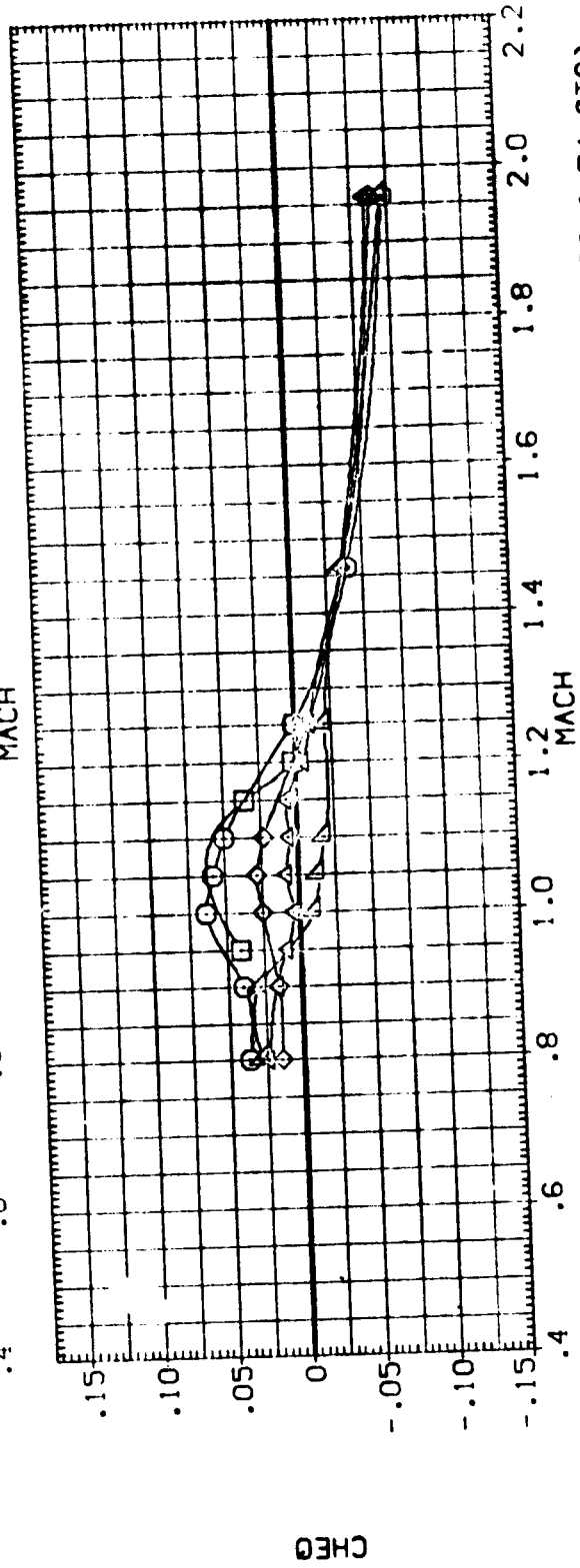
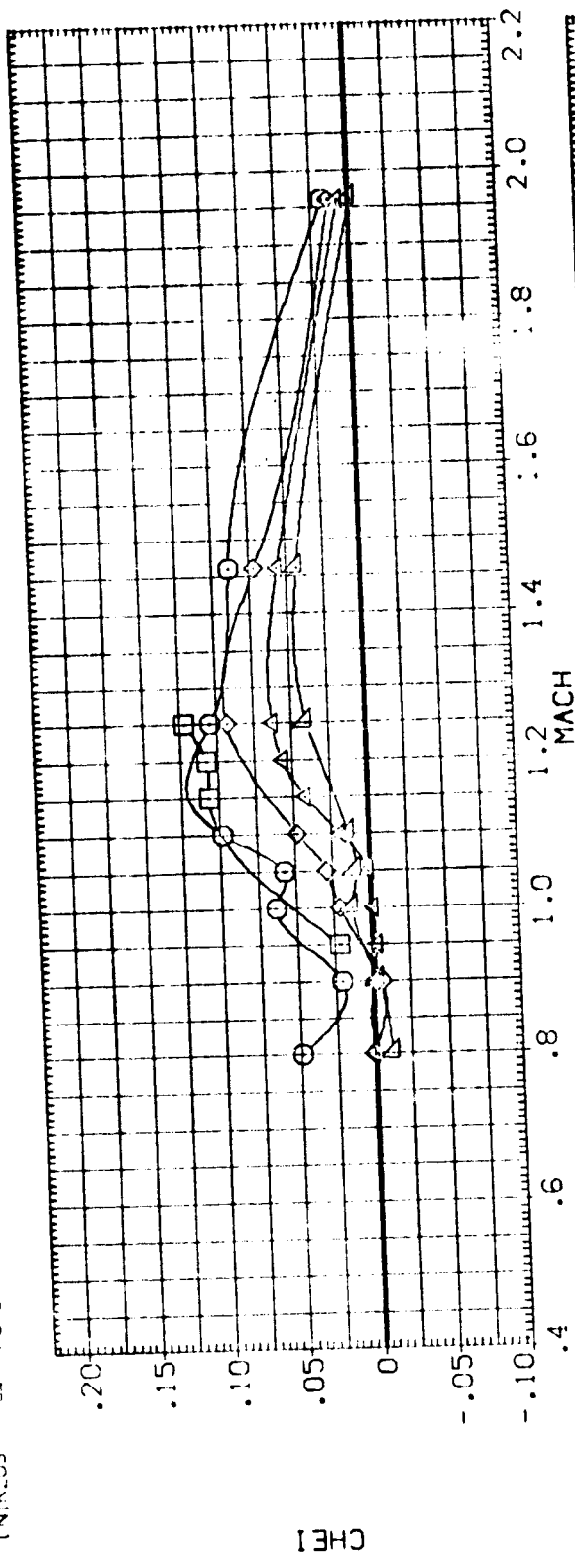


FIGURE 4 EFFECT OF FLIPPER DOOR DEFLECTION ON ELEVON HINGE MOMENTS (74-OTS)
(F)ALPHA = 4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA	ORBITING	FLIPPER
.000	.000	.000
.000	.000	.000
.000	.000	10.000
.000	.000	20.000
.000	.000	40.000

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
MSFC TW610	(1A-71) 74-OTS (STEEL)
MSFC TW610	(1A-71) 74-OTS Z10
MSFC TW610	(1A-71) 77-0-74-TS
MSFC TW610	(1A-71) 74-OTS Z10
MSFC TW610	(1A-71) 74-OTS Z10

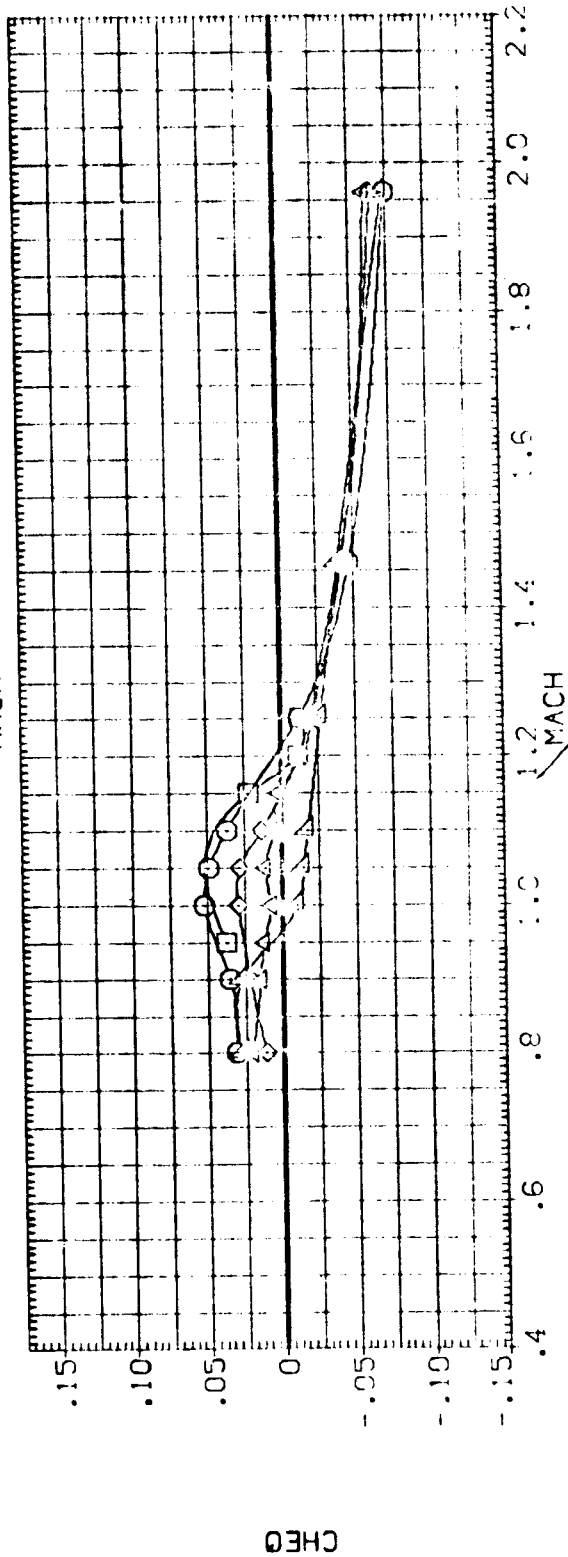
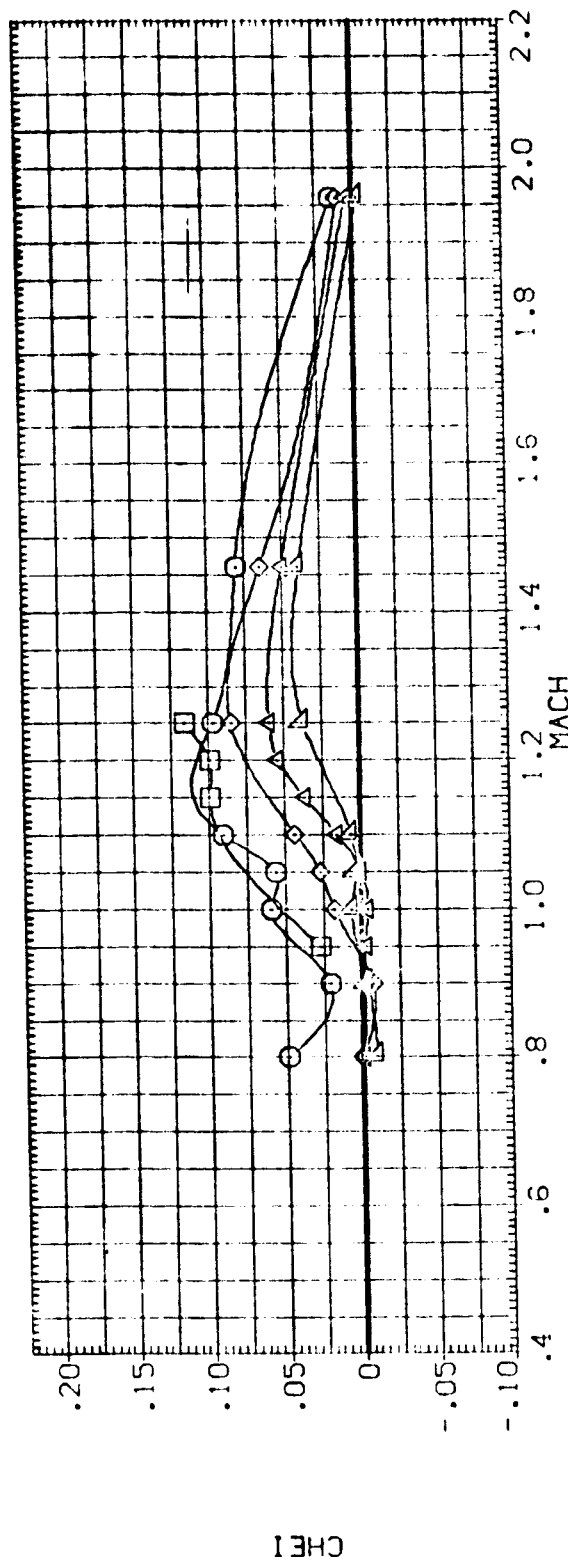


FIGURE 4 EFFECT OF FLIPPER DOOR DEFLECTION ON ELEVON HINGE MOMENTS (74-OTS)

(G)ALPHA = 5.70

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

ALPHA ORB/INC FLIPDR
.000 .000 .000
.000 .000 .000
.000 .000 .000
.000 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
WSEC TW610 (IA-71) 74-OTS Z10
DATA NOT AVAILABLE
WSEC TW610 (IA-71) 74-OTS Z10
DATA NOT AVAILABLE

OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CMG

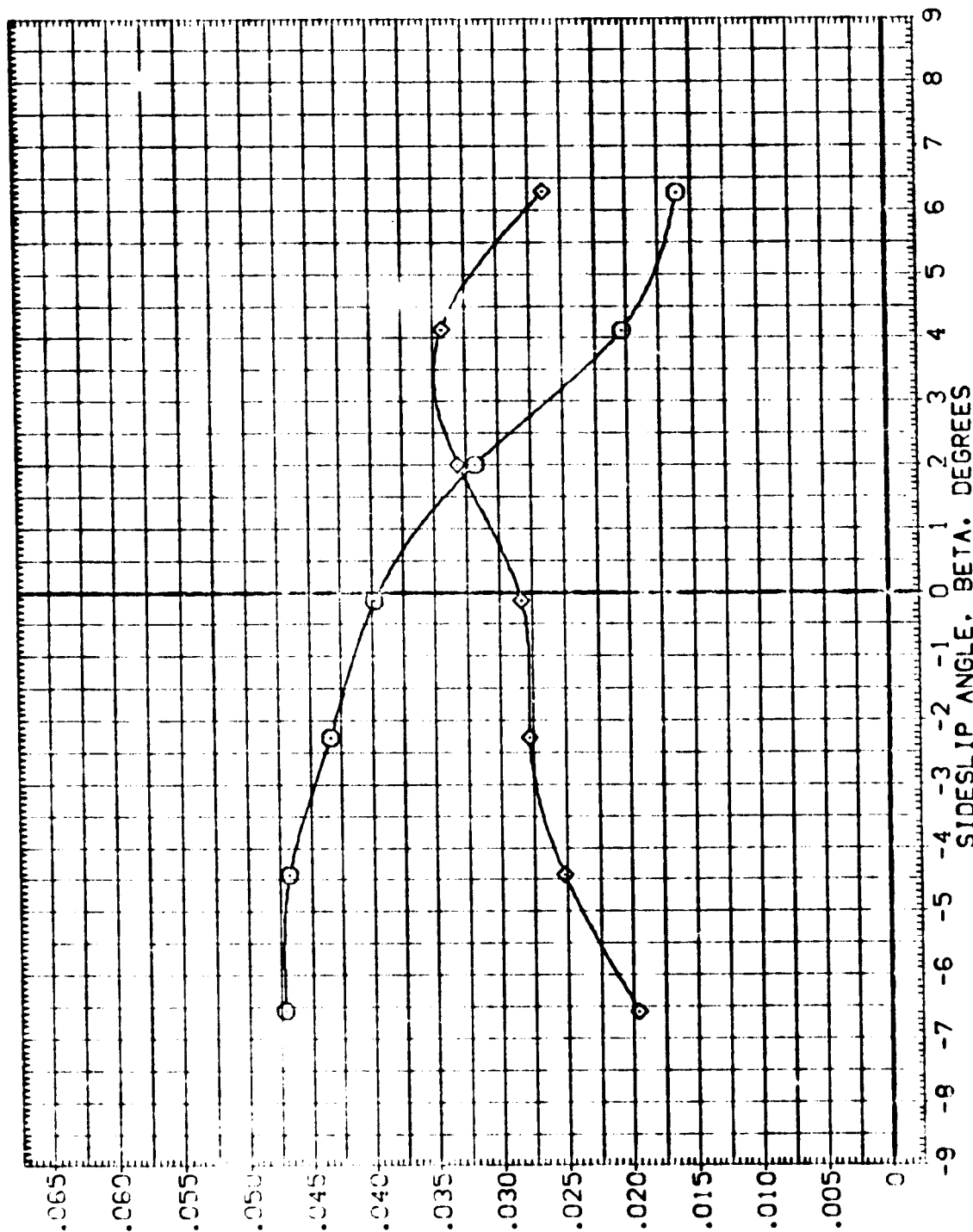


FIGURE 5 EFFECT OF FLP. DR. OFLCT ON ELEVON H.M. (VEH. IN SIDESLIP) (74-OTS)

CADWACH = .90

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

ALPHA ORBINC FLIPDR
 .000 .000 .000
 .000 .000 10.000
 .000 .000 20.000
 .000 .000 40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AIR208) MSFC TWT610 (1A-71) 74-OTS Z10
 (AIR209) DATA NOT AVAILABLE
 (AIR209) MSFC TWT610 (1A-71) 74-OTS Z10
 (AIR209) DATA NOT AVAILABLE

INBOARD ELEVON HINGE MOMENT COEFFICIENT, C_{H1}

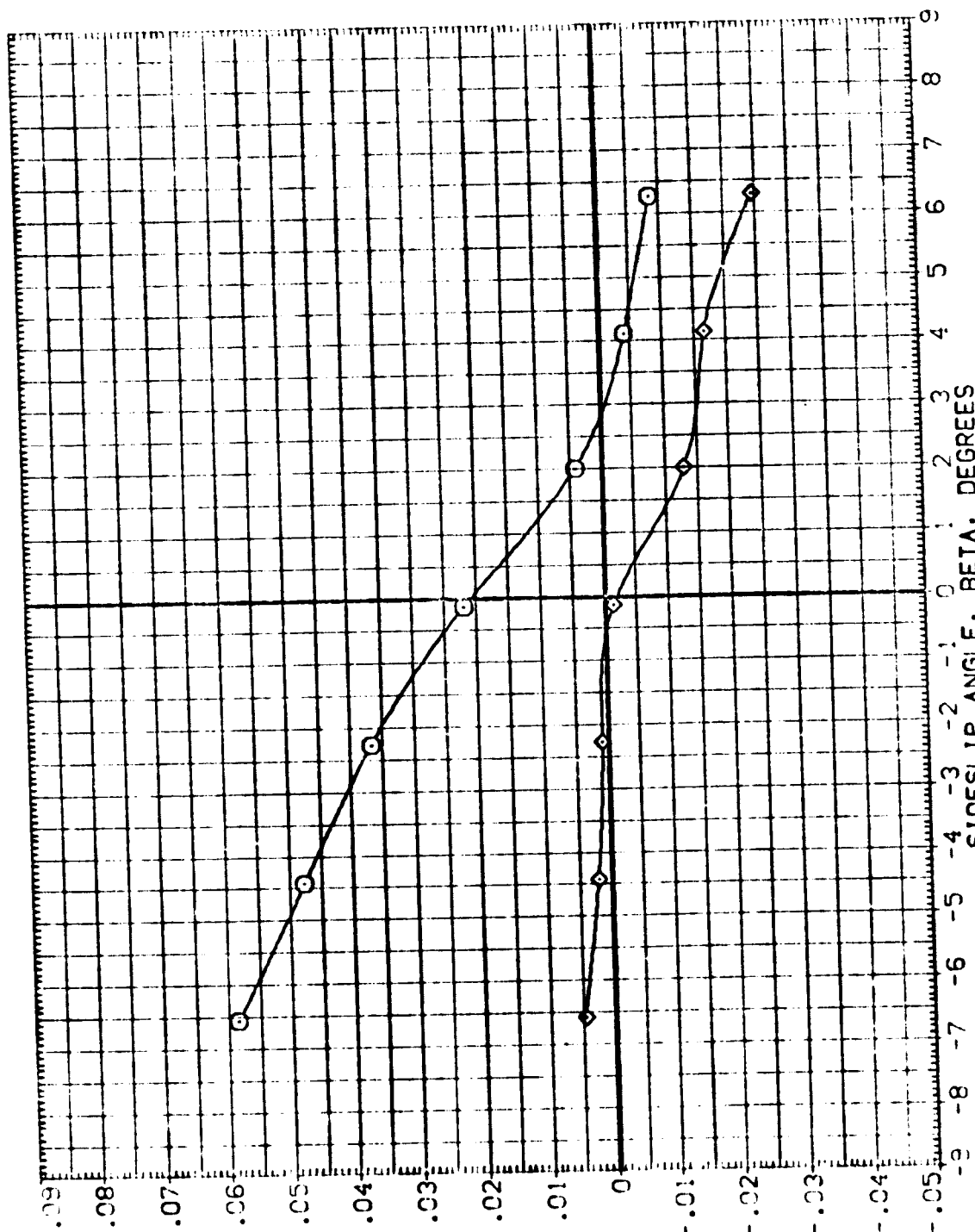


FIGURE 6 EFFECT OF FLP. DR. DFLCT ON ELEVON H.M. (VEH. IN SIDESLIP) (74-OTS)

(A) MACH = .90

SEE THE ASSOCIATED DATA
SHEET FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

ALPHA .000
CRB:NC .000
FLIPOR .000
10.000
20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(AIK209) DATA NOT AVAILABLE
(AIK209) MSFC TVT610 (1A-71) 74-OTS Z10
(AIK209) MSFC TVT610 (1A-71) 74-OTS Z10
(AIK209) MSFC TVT610 (1A-71) 74-OTS Z10

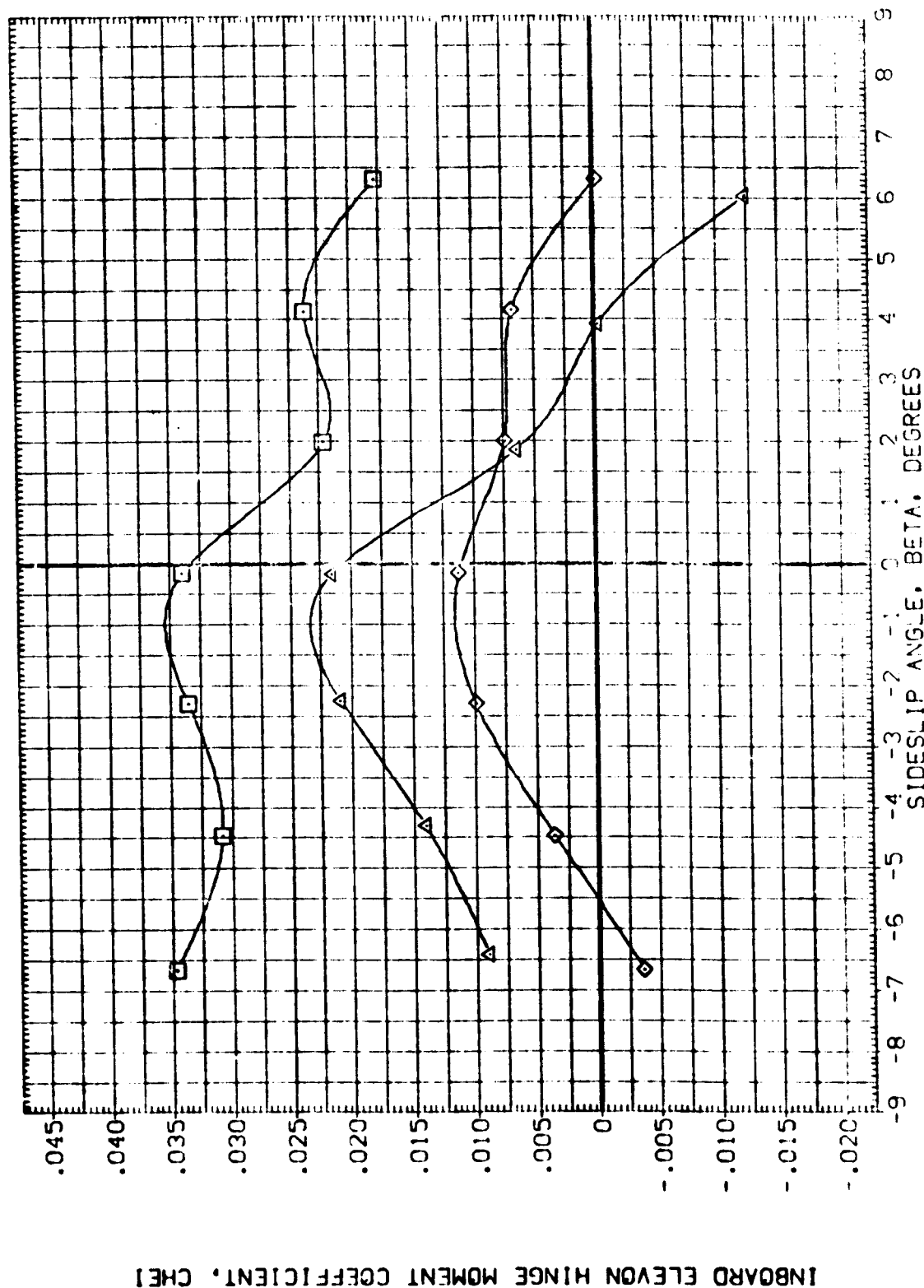


FIGURE 6 EFFECT OF FLAP DR. DEFLECT ON ELEVON H.M. (VEH. IN SIDESLIP) (74-OTS)

(B) MACH = 1.05

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

ALPHA	ORBIT	FLIPDR
.000	.000	.000
.000	.000	10.000
.000	.000	20.000
.000	.000	40.000

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
□	MSFC TVT610 (1A-71) 74-0YS Z10
×	DATA NOT AVAILABLE
◇	MSFC TVT610 (1A-71) 74-0YS Z10
◇	DATA NOT AVAILABLE

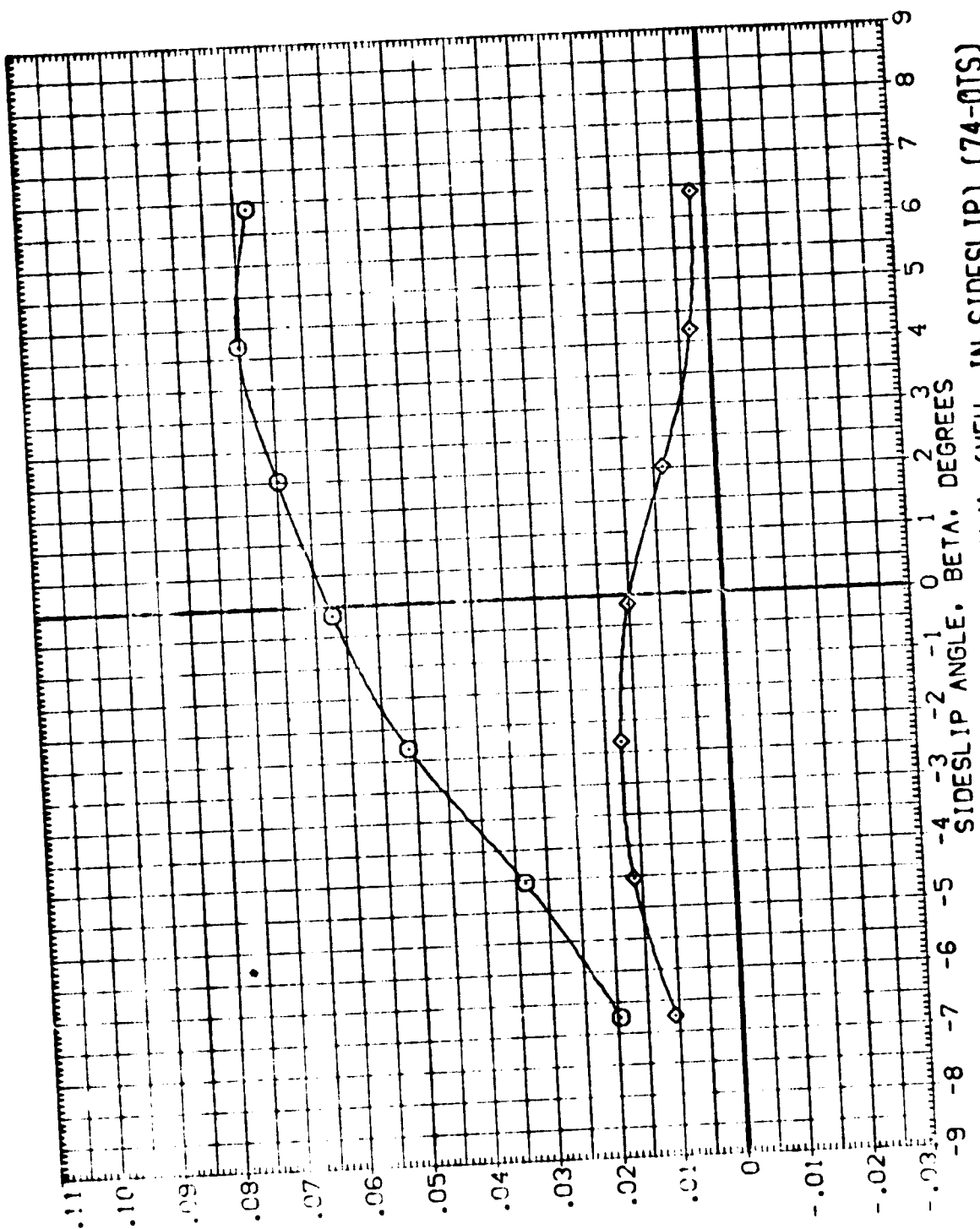


FIGURE 5 EFFECT OF FLAP DR. DFLCT ON ELEVON H.M. (VEH. IN SIDESLIP) (74-0TS)

(C)MACH = 1.25

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

ALPHA	ORBITAL	FLIPDR
.000	.000	.000
.000	.000	10.000
.000	.000	20.000
.000	.000	40.000

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
MSFC TWT610 (1A-71) 74-OTS Z10	
DATA NOT AVAILABLE	
MSFC TWT610 (1A-71) 74-OTS Z10	
DATA NOT AVAILABLE	

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

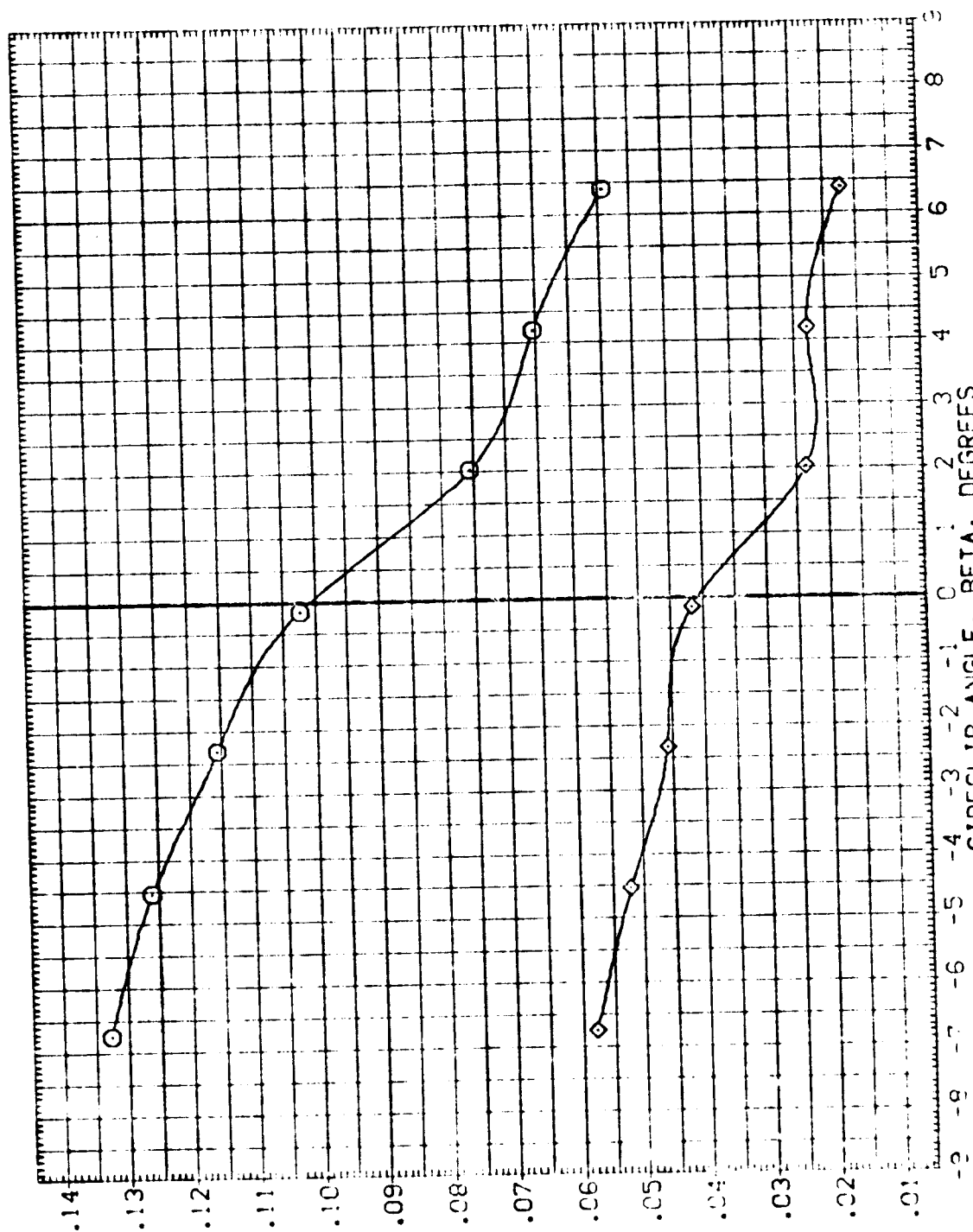
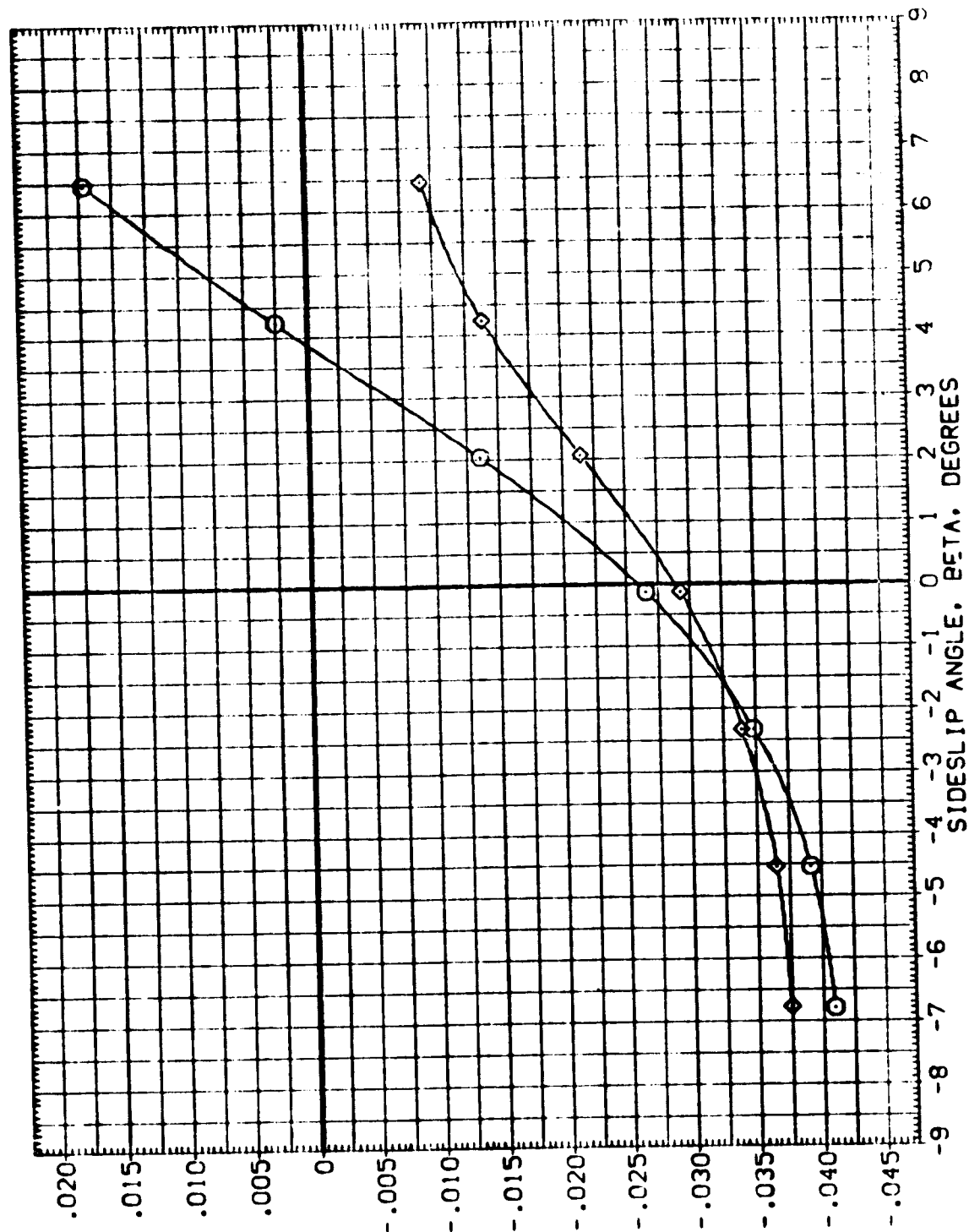


FIGURE 6 EFFECT OF FLP. DR. DFLECT ON ELEVON H.M. (VEH. IN SIDESLIP) (74-OTS)

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

ALPHA	ORBITING	FLIPDR
.000	.000	.000
.000	.000	10.000
.000	.000	20.000
.000	.000	40.000

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(A1K208)	MSFC TWT610 (1A-71) 74-OTS Z10
(A1K209)	DATA NOT AVAILABLE
(A1K206)	MSFC TWT610 (1A-71) 74-OTS Z10
(A1K204)	DATA NOT AVAILABLE



OUTBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEO

FIGURE 6 EFFECT OF FLP. DR. DEFLECT ON ELEVON H.M. (VEH. IN SIDESLIP) (74-OTS)

(O) MACH = 1.46

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

ALPHA	ORBIT	FLIPOR
.000	.000	.000
.000	.000	10.000
.000	.000	20.000
.000	.000	40.000

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(A1K208)	MSFC TUT610 (1A-71) 74-OTS Z10
(A1K209)	DATA NOT AVAILABLE
(A1K205)	MSFC TUT610 (1A-71) 74-OTS Z10
(A1K204)	DATA NOT AVAILABLE

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

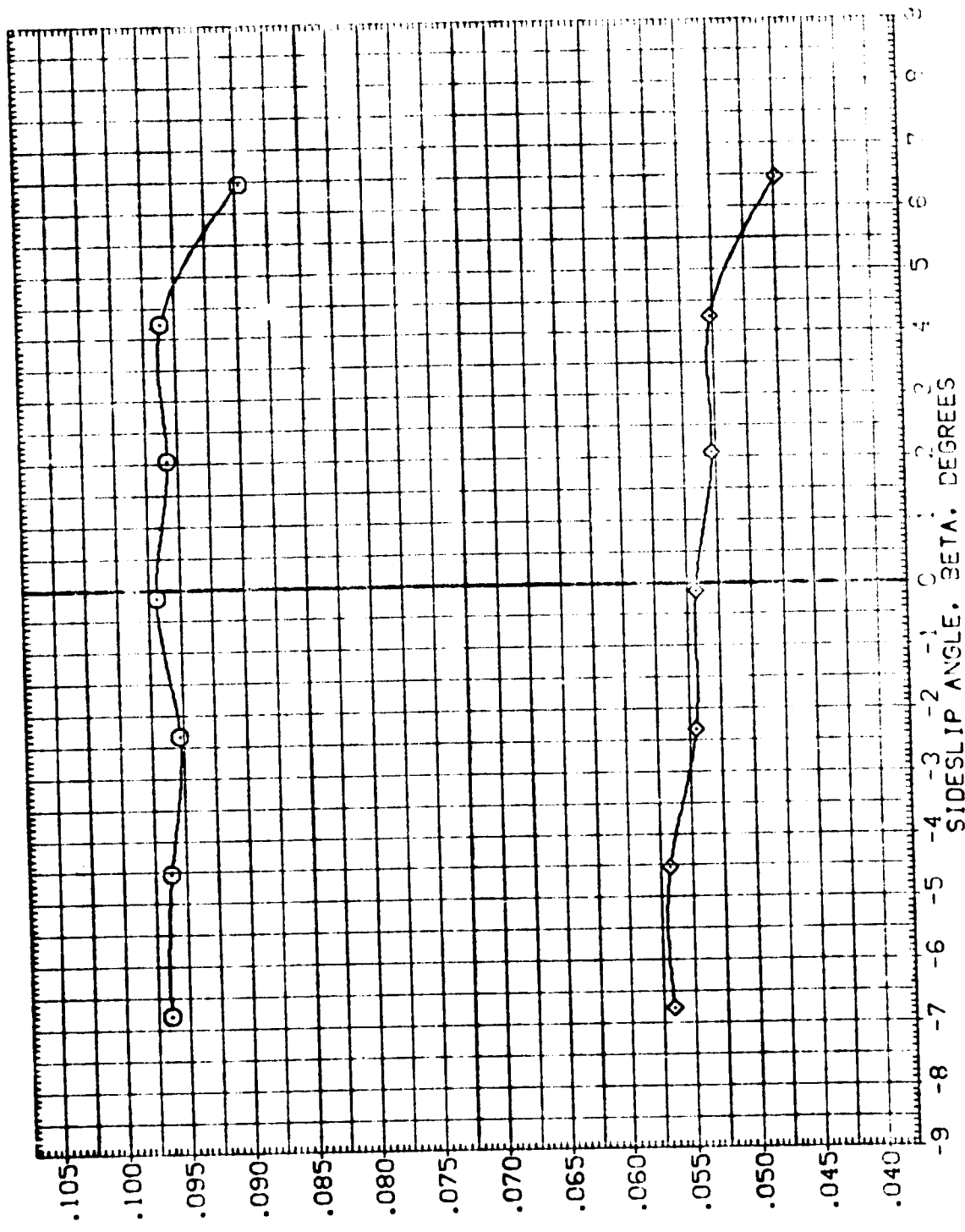


FIGURE 6 EFFECT OF FLP. DR. DEFLECT ON ELEVON H.M. (VEH. IN SIDESLIP) (74-OTS)

(D)MACH = 1.46

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

ALPHA ORBING FLIPOR
.000 .000 20.000
.000 .000 40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(A)K227) □ MSFC TVT610 (1A-71) 74-OTS 213
(A)K228) □ MSFC TVT610 (1A-71) 74-OTS 213

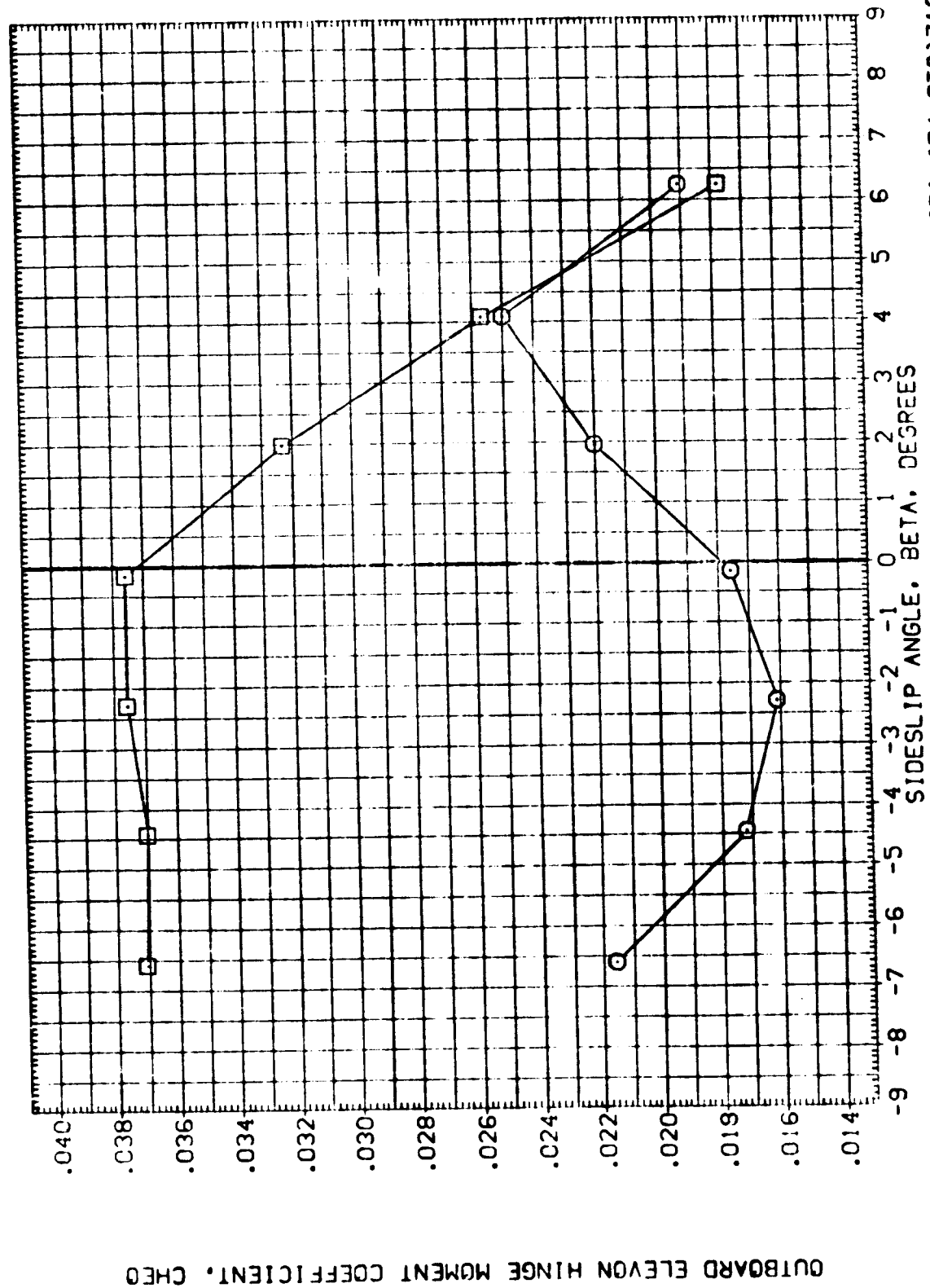


FIGURE 7 EFFECT OF FLP. DR. DFLCT ON ELEVON H.M. (VEH. IN SIDESLIP) (74-OTS)213
(A)MACH = .90

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

ALPHA .000 .000
ORBITAL .000 .000
FLIPOR 20.000 40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(A)K227) MSFC TVT610 (1A-71) 74-OTS Z13
(A)K228) MSFC TVT610 (1A-71) 74-OTS Z13

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

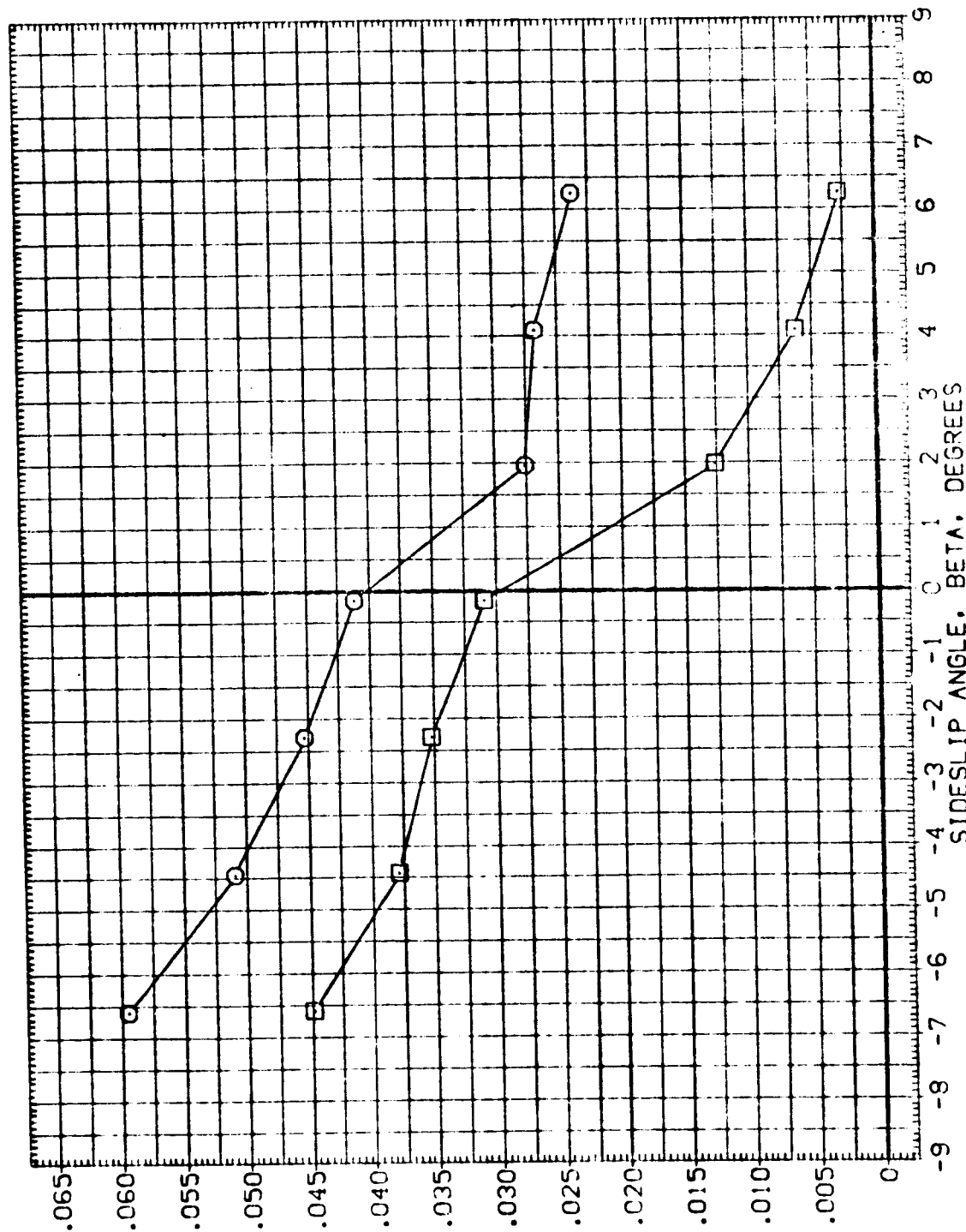


FIGURE 7 EFFECT OF FLP. DR. DEFLECT ON ELEVON H.M. (VEF. IN SIDESLIP) (74-OTS)Z13

(A)MACH = .90

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

ALPHA ORBINC FLIPOR
 .000 .000 20.000
 .000 .000 40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AIK227) MSFC TWT610 (IA-71) 74-01S Z13
 (AIK228) MSFC TWT610 (IA-71) 74-01S Z13

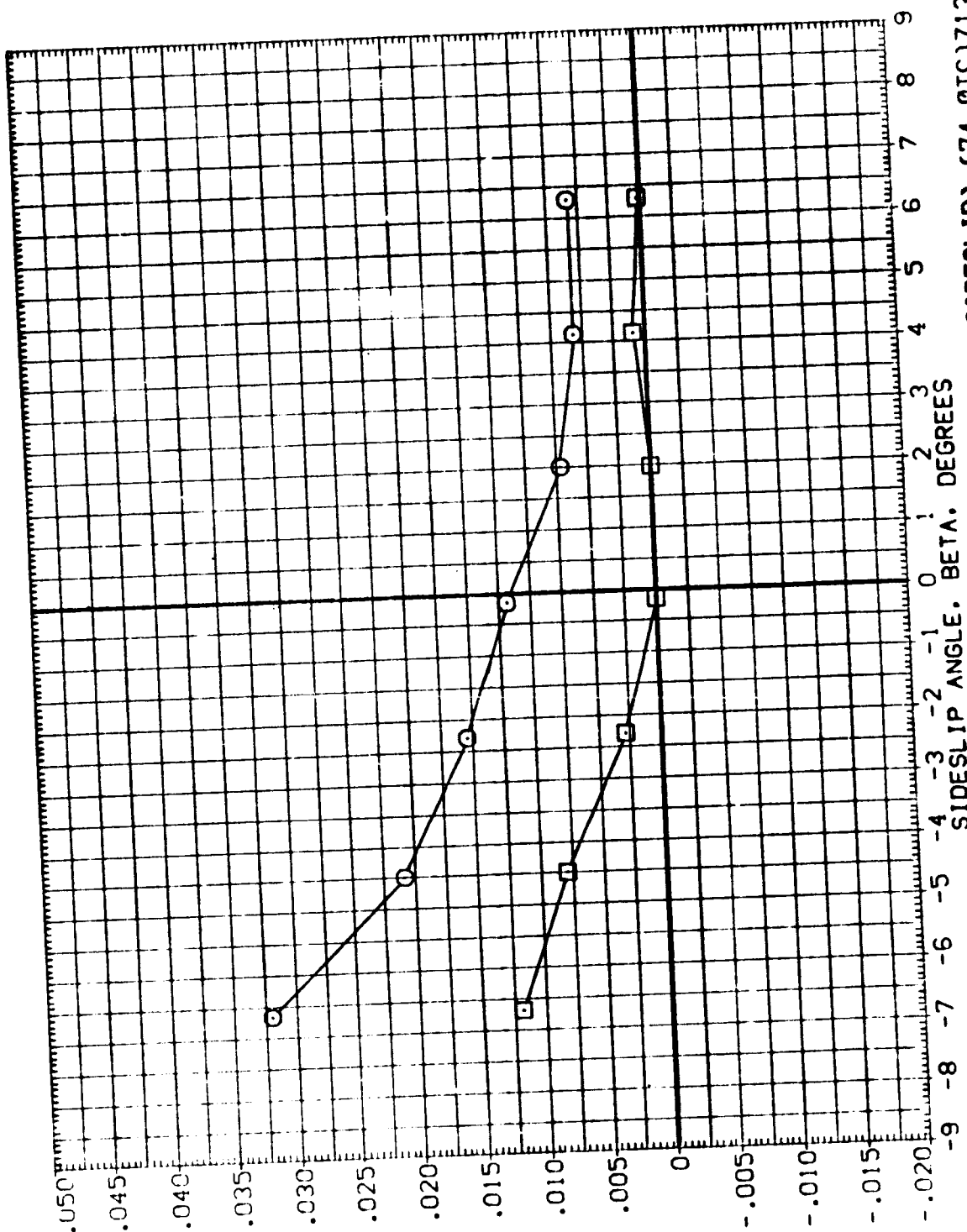


FIGURE 7 EFFECT OF FLP. DR. DFLCT ON ELEVON H.M. (VEH. IN SIDESLIP) (74-01S)Z13

(B)MACH = 1.05

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS AND
INDIVIDUAL DATA SETS

ALPHA .000
ORBITAL .000
FLIPDR 20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(A1K227) MSFC TW'610 (1A-71) 74-015 Z13
(A1K224) MSFC TW'610 (1A-71) 74-015 Z13



FIGURE 7 EFFECT OF FLP. DR. DEFLECT ON ELEVON H.M. (VEH. IN SIDESLIP) (74-015)Z13

(8)MACH = 1.05



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

ALPHA .000 .000
ORBITAL .000 .000
FLIPOR 20.000 40.000

DATA SET SYMBOL: CONFIGURATION DESCRIPTION
(AIK227) Q MSCC TV1610 (IA-71) 74-OTS Z13
(AIK228) Q MSCC TV1610 (IA-71) 74-OTS Z13

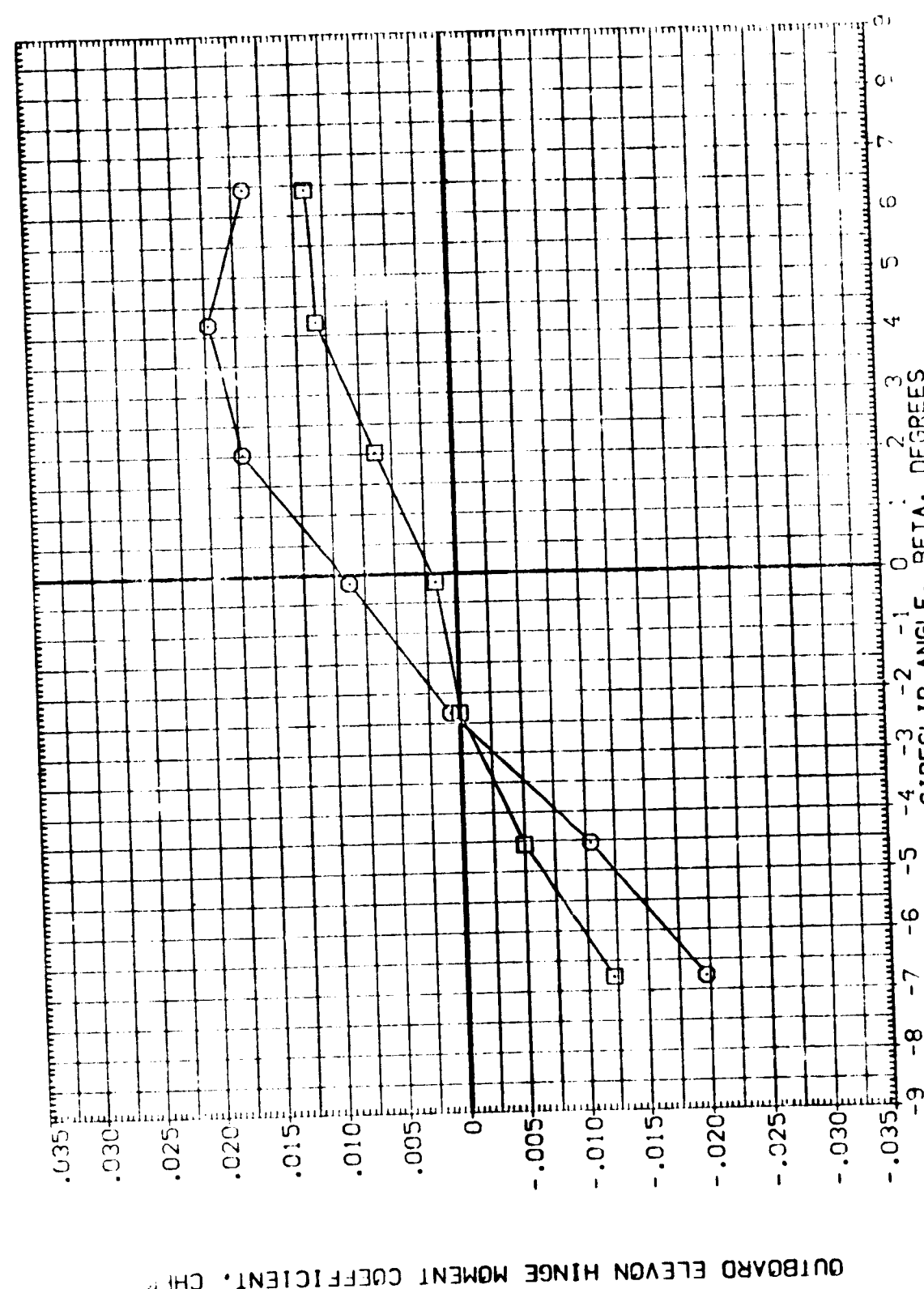


FIGURE 7 EFFECT OF FLP. DR. DFLCT ON ELEVON H.M. (VEH. IN SIDESLIP) (74-OTS)Z13
(C)MACH = 1.25 PAGE 27

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

ALPHA .000 .000
ORBINC .000 .000
FLIPDR 20.000 40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(AIK227) MSFC TW610 (IA-71) 74-QTS Z13
(AIK228) MSFC TW610 (IA-71) 74-QTS Z13

INBOARD ELEVON HINGE MOMENT COEFFICIENT, CHEI

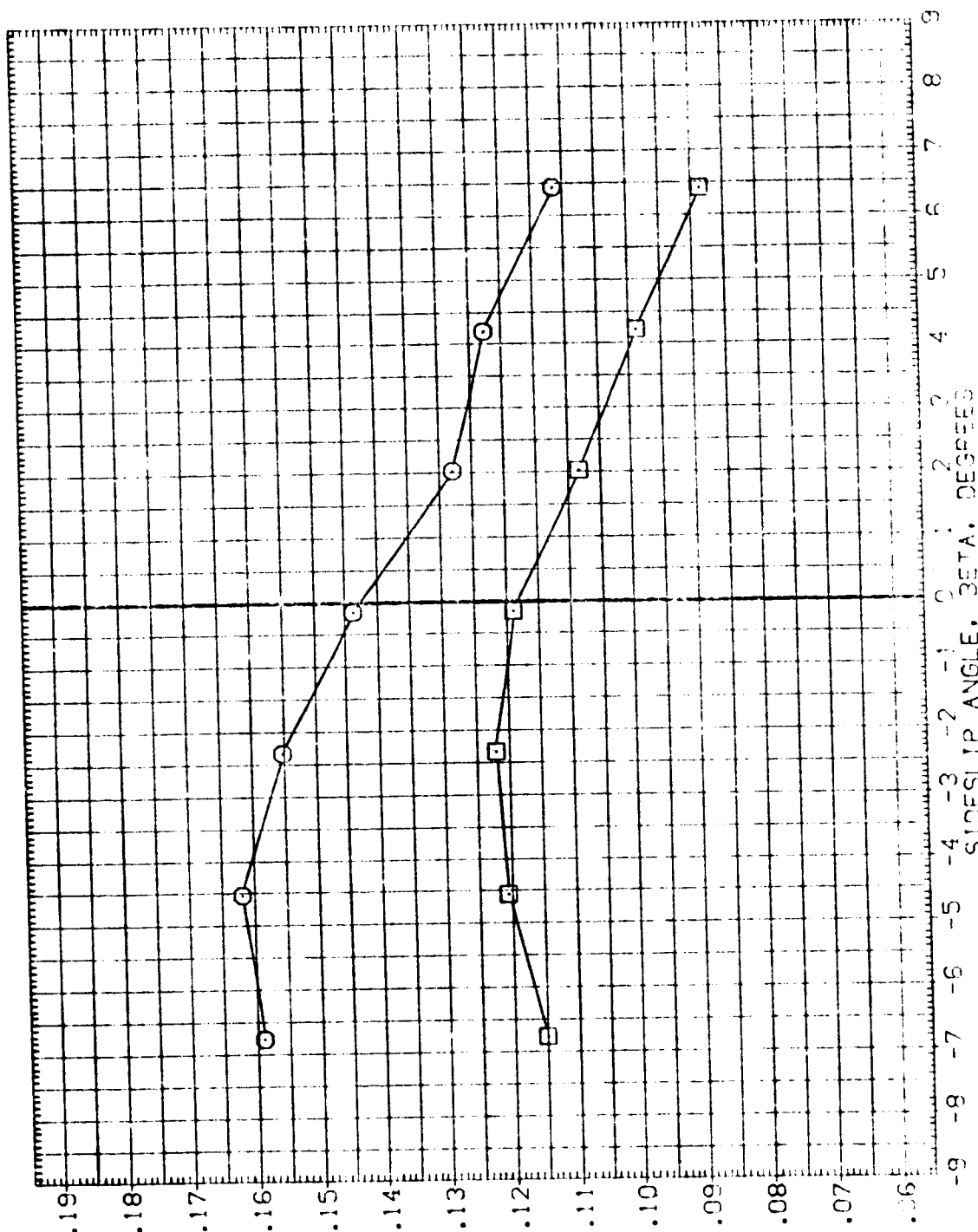


FIGURE 7 EFFECT OF FLP. DR. DFLCT ON ELEVON H.M. (VEH. IN SIDESLIP) (74-QTS)Z13

COMBACH = 1.25

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

ALPHA .000
ORBIT .000
FLIPOR 20.000
40.000

DATA SET SYMBOL
(AIK227) \square MSFC TW610 (1A-71) 74-OTS Z13
(AIK228) \square MSFC TW610 (1A-71) 74-OTS Z13

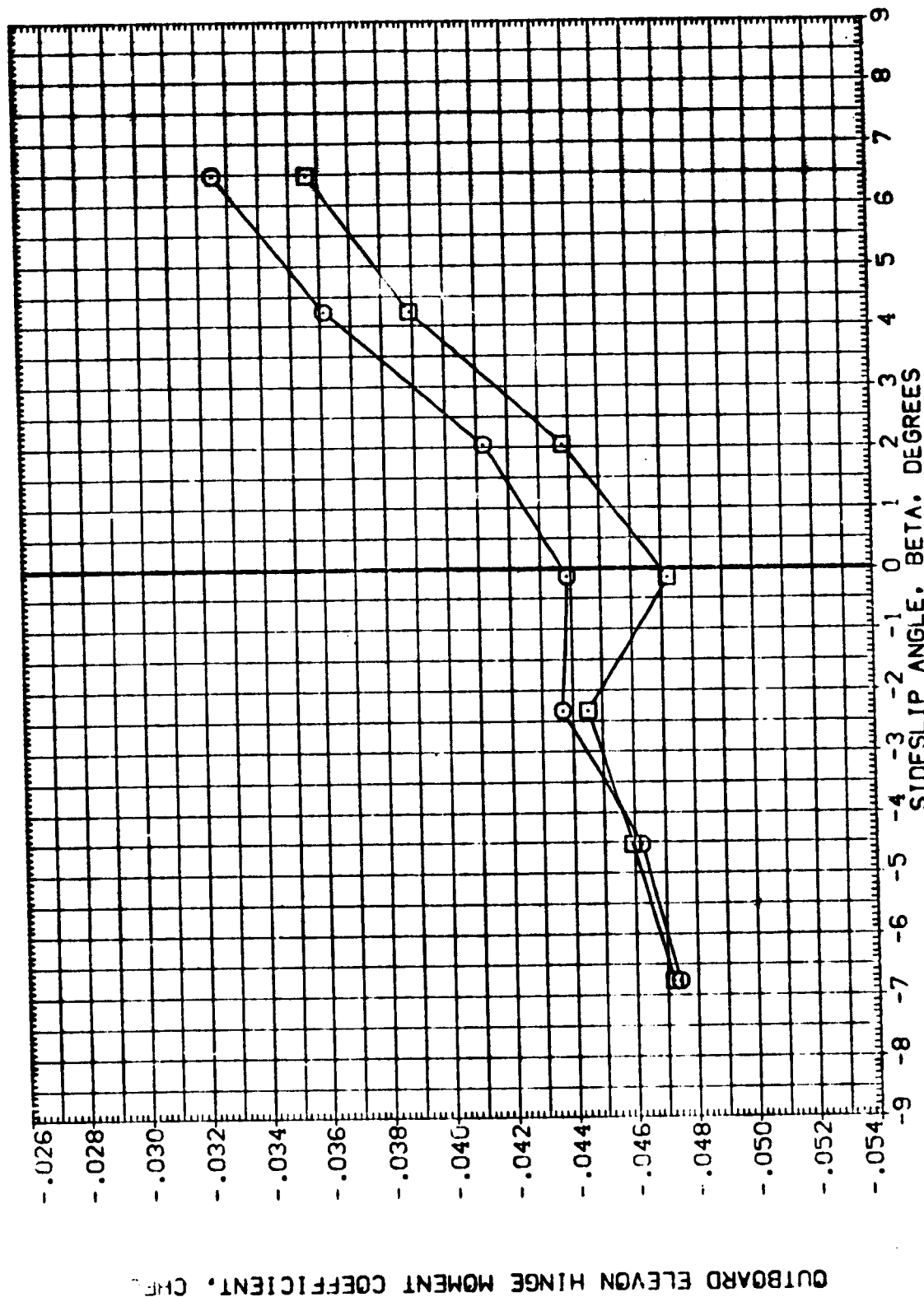


FIGURE 7 EFFECT OF FLAP DR. DFLCT ON ELEVON H.M. (VEH. IN SIDESLIP) (74-OTS)Z13

(D)MACH = 1.96

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (A1K227) MSFC TWT610 (1A-71) 74-OTS Z13
 (A1K228) MSFC TWT610 (1A-71) 74-OTS Z13

SEE THE ASSOCIATED DATA
 DOCUMENT FOR REFERENCE
 CHARACTERISTICS FOR
 INDIVIDUAL DATASETS

ALPHA CRBINC FLIPDR
 .000 .000 20.000
 .000 .000 40.000

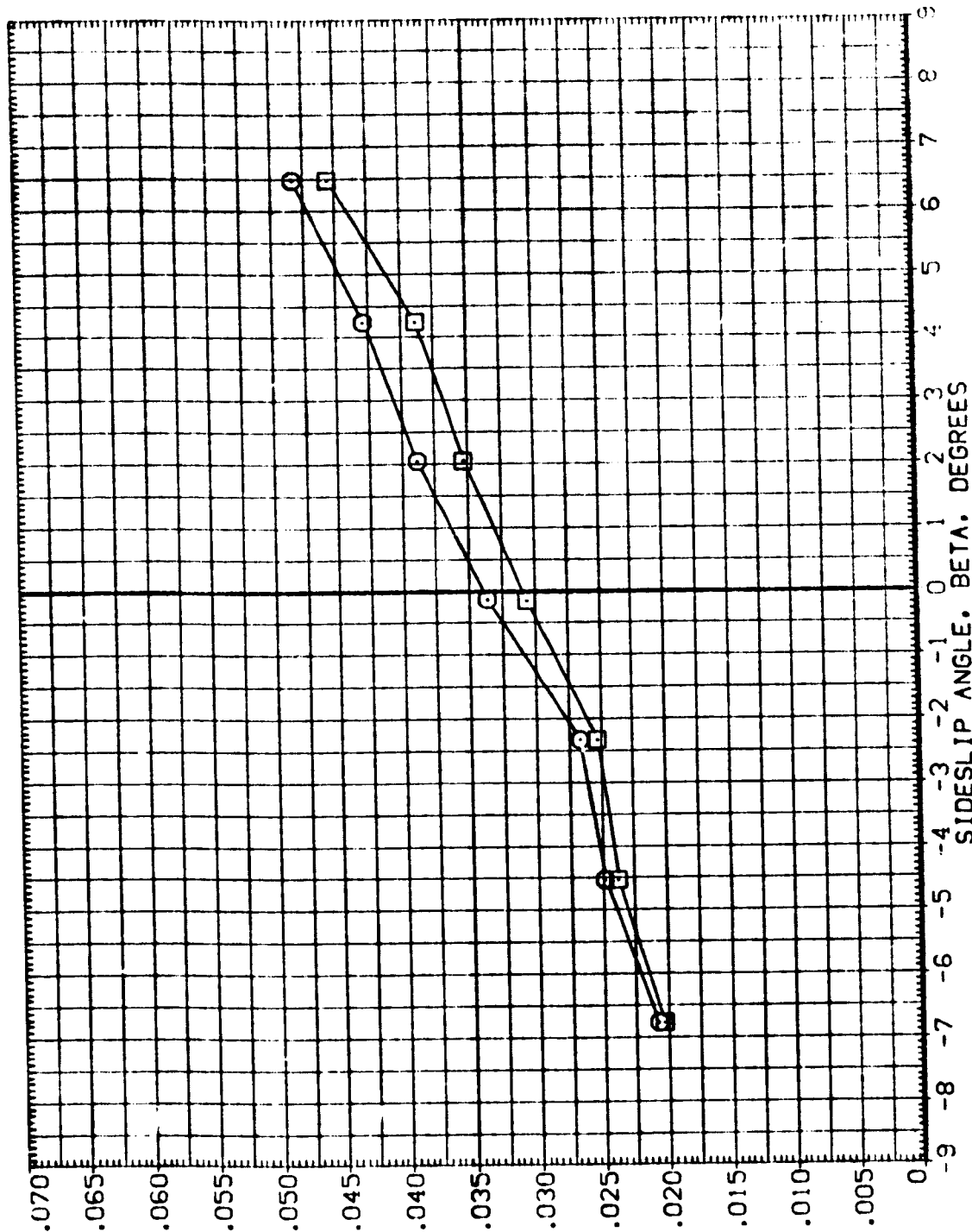


FIGURE 7 EFFECT OF FLP. DR. DFLECT ON ELEVON H.M. (VEH. IN SIDESLIP) (74-OTS)Z13

(D)MACH = 1.96



①

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000 .000 .000
ORBIT .000 .000 .000 .000
FLIPDR .000 .000 .000 .000
10.000
20.000
40.000

DATA SET SYMBO. CONFIGURATION DESCRIPTION
(NIK211) MSFC TVT610 (IA-71) 77-0.74-TS
(NIK212) MSFC TVT610 (IA-71) 77-0.74-TS
(NIK219) MSFC TVT610 (IA-71) 77-0.74-TS Z10
(NIK216) MSFC TVT610 (IA-71) 77-0.74-TS Z10
(NIK214) MSFC TVT610 (IA-71) 77-0.74-TS Z10

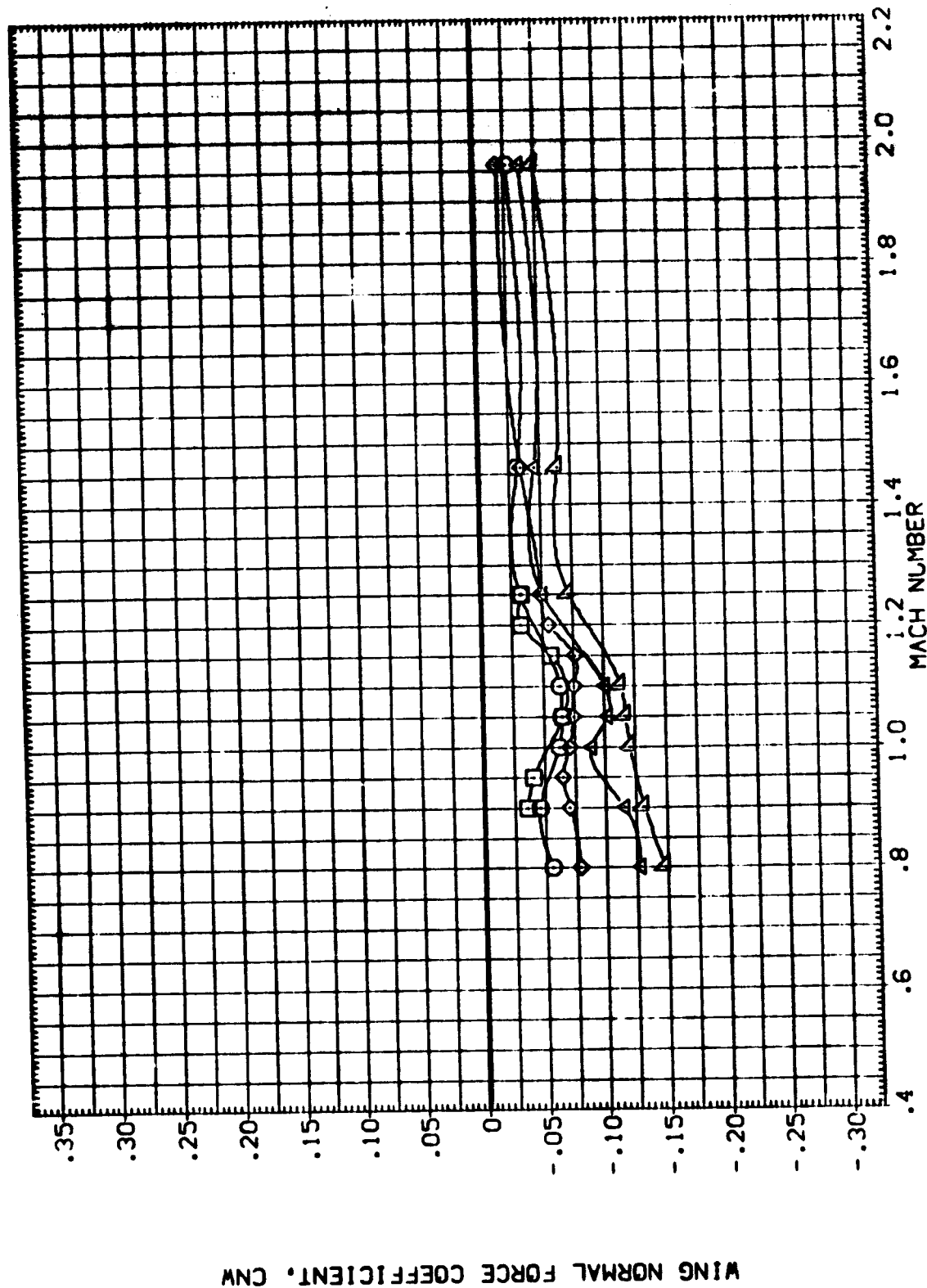


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(A) ALPHA = -6.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPDR .000
10.000
20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K211) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K212) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K219) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K216) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K214) MSFC TWT610 (1A-71) 77-0.74-TS

WING NORMAL FORCE COEFFICIENT, CNW

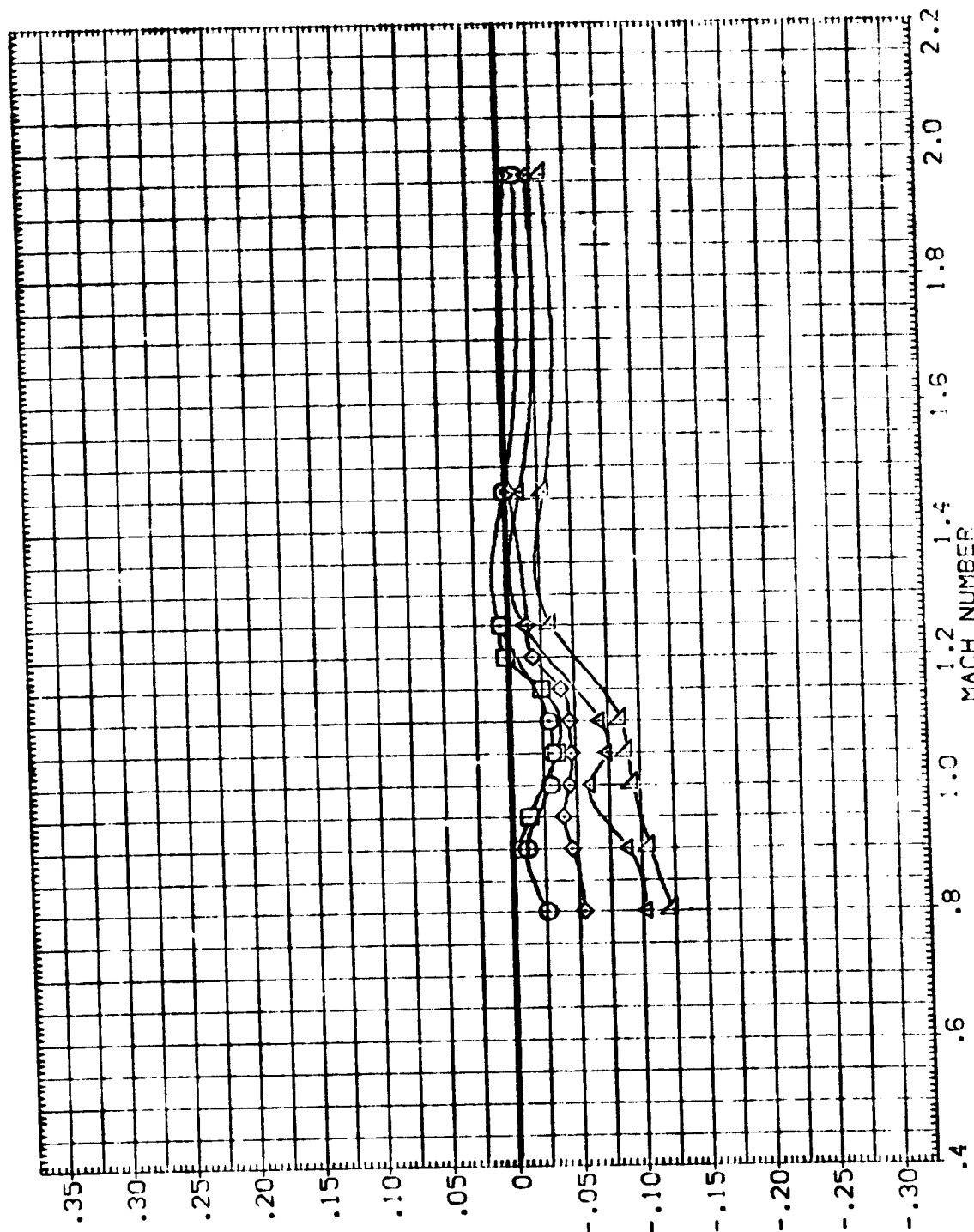


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(B) ALPHA = -4.00

BETA	ORBINC	FLIPOR
.000	.000	.000
.000	.000	.000
.000	.000	10.000
.000	.000	20.000
.000	.000	40.000
.000	.000	

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(NK211)	MSC TWT610 (A-71) 77-0.74-TS
(NK212)	MSC TWT610 (A-71) 77-0.74-TS
(NK213)	MSC TWT610 (A-71) 77-0.74-TS
(NK214)	MSC TWT610 (A-71) 77-0.74-TS
(NK215)	MSC TWT610 (A-71) 77-0.74-TS
(NK216)	MSC TWT610 (A-71) 77-0.74-TS
(NK217)	MSC TWT610 (A-71) 77-0.74-TS
(NK218)	MSC TWT610 (A-71) 77-0.74-TS
(NK219)	MSC TWT610 (A-71) 77-0.74-TS
(NK220)	MSC TWT610 (A-71) 77-0.74-TS

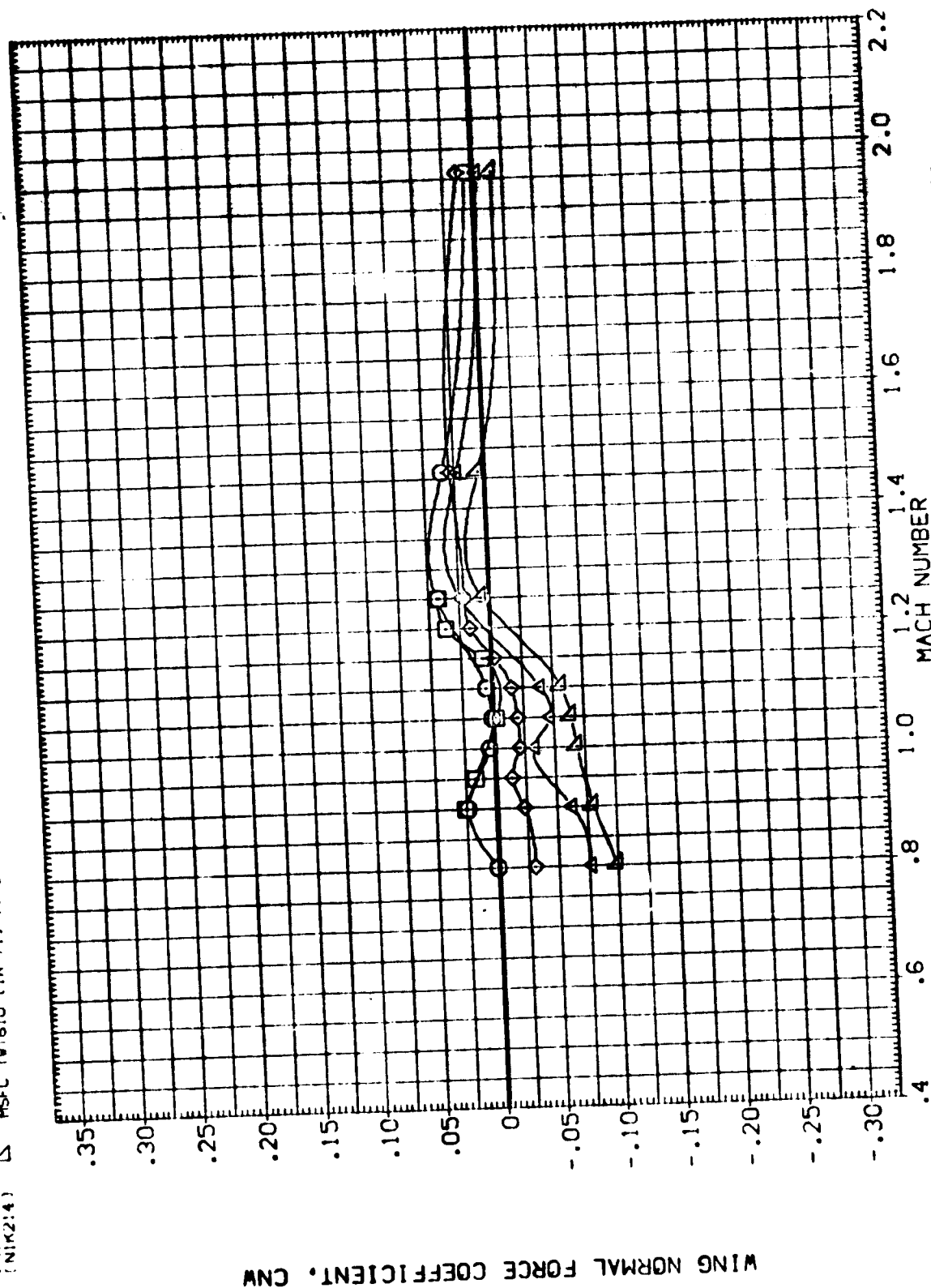


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000 .000 .000
ORBINC .000 .000 .000 .000
FLIPDR .000 .000 .000 .000
10.000 20.000 40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K211) MSFC TW610 (1A-71) 77-0.74-TS
(N1K212) MSFC TW610 (1A-71) 77-0.74-TS
(N1K219) MSFC TW610 (1A-71) 77-0.74-TS
(N1K216) MSFC TW610 (1A-71) 77-0.74-TS
(N1K214) MSFC TW610 (1A-71) 77-0.74-TS

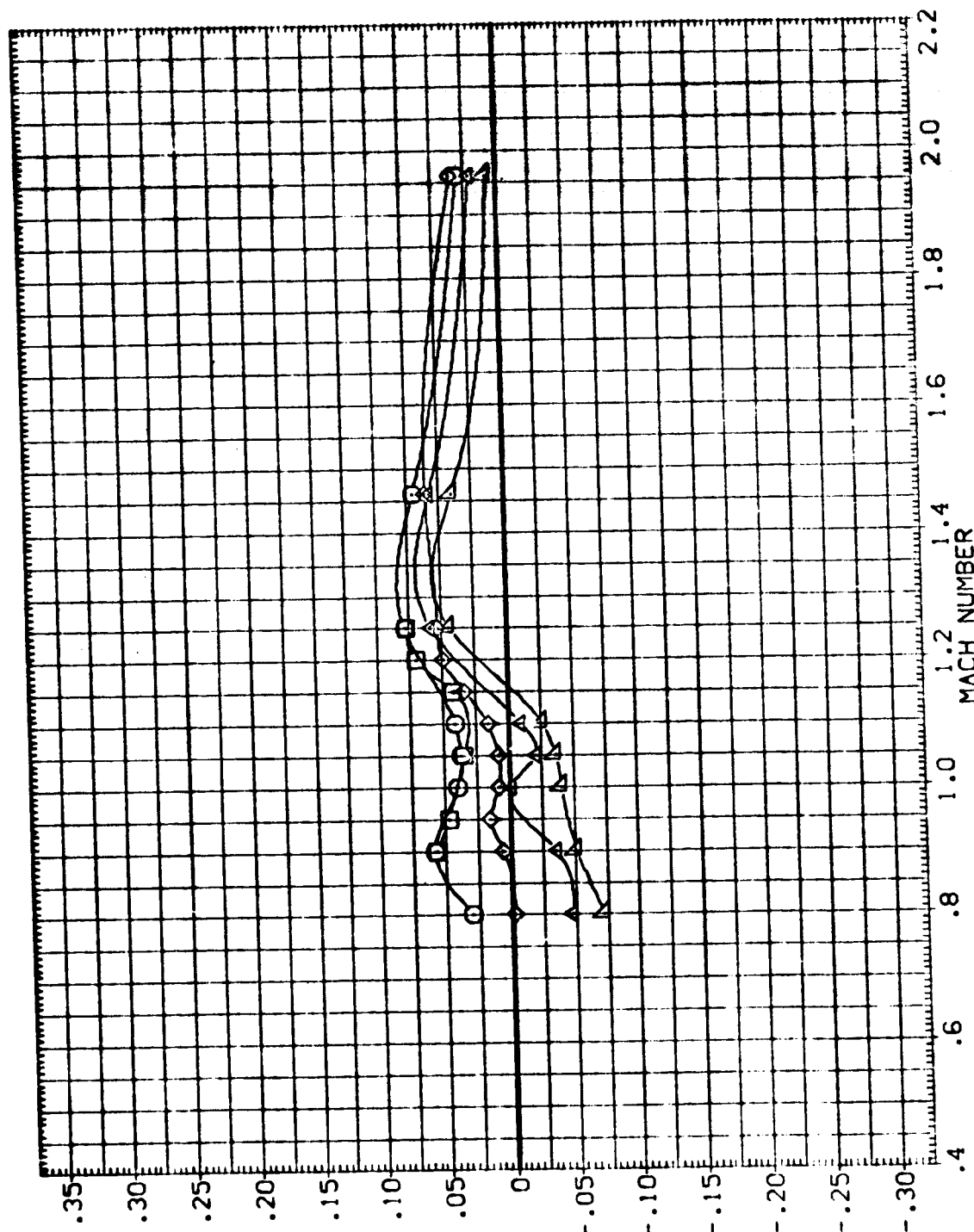


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(D) ALPHA = .00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000 .000 .000 .000 .000
ORBITAL .000 .000 .000 .000 .000 .000
FLIPPER .000 .000 .000 .000 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K211) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K212) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K219) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K216) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K214) MSFC TWT610 (1A-71) 77-0.74-TS

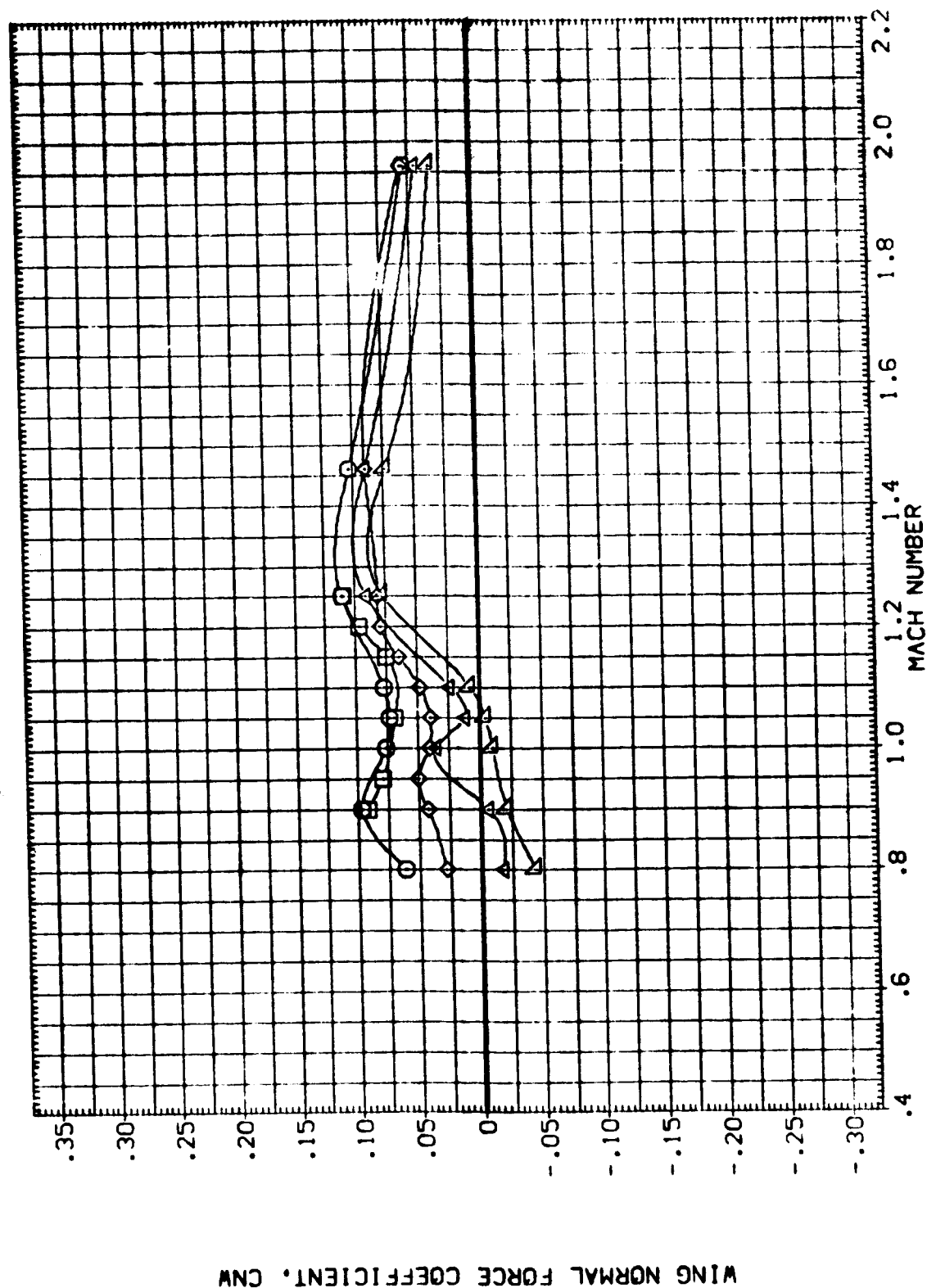


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(E) ALPHA = 2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA	ORBINC	FLIPDR
.000	.000	.000
.000	.000	.000
.000	.000	10.000
.000	.000	20.000
.000	.000	40.000

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(NIK211)	MSFC TVT610 (1A-71) 77-0.74-TS
(NIK212)	MSFC TVT610 (1A-71) 77-0.74-TS
(NIK213)	MSFC TVT610 (1A-71) 77-0.74-TS
(NIK214)	MSFC TVT610 (1A-71) 77-0.74-TS

WING NORMAL FORCE COEFFICIENT, CNW

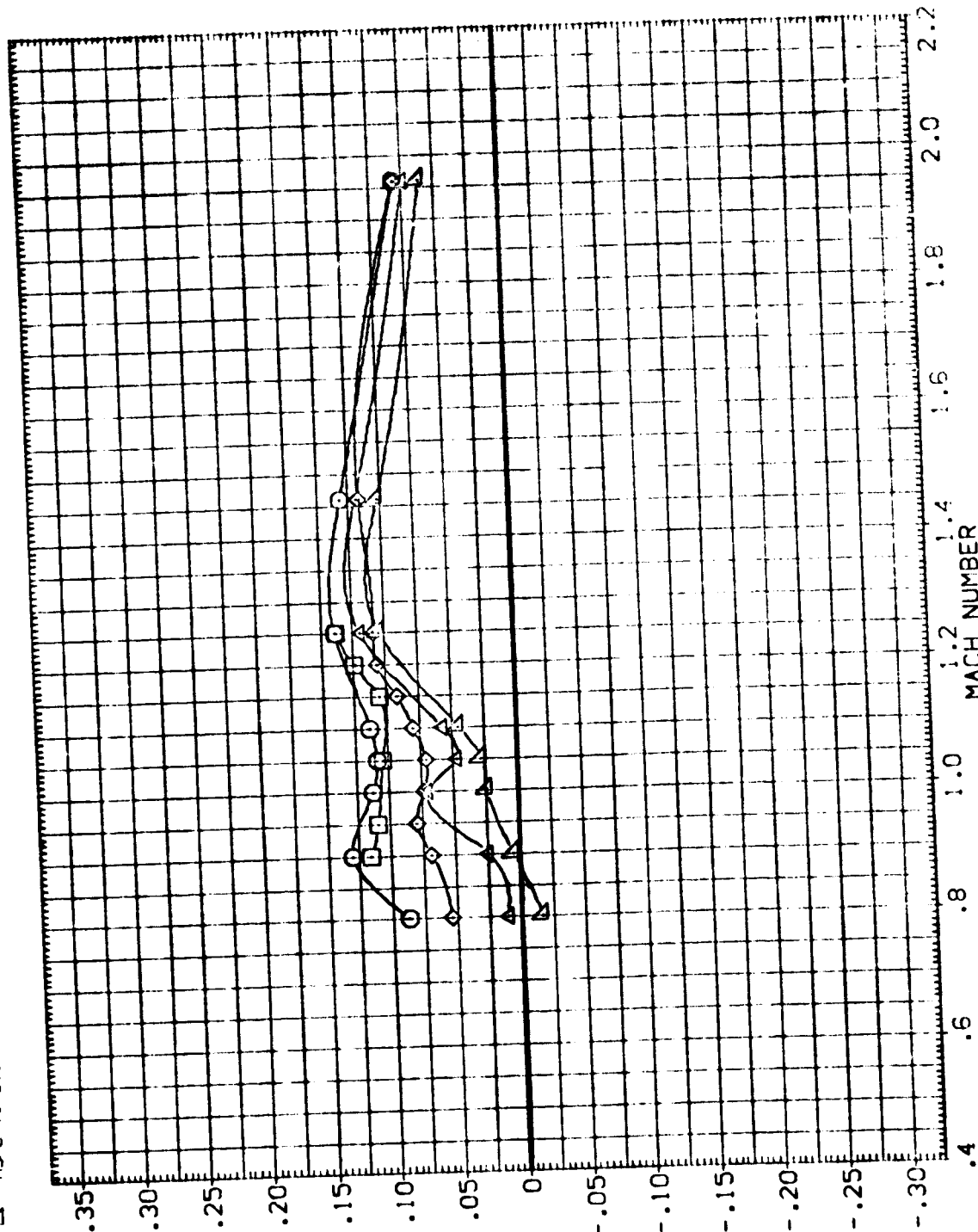


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(F) ALPHA = 4.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBITING .000
FLIPPER .000
10.000
20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K211) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K212) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K213) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K214) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K215) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K216) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K217) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K218) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K219) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K220) MSFC TVT610 (1A-71) 77-0.74-TS

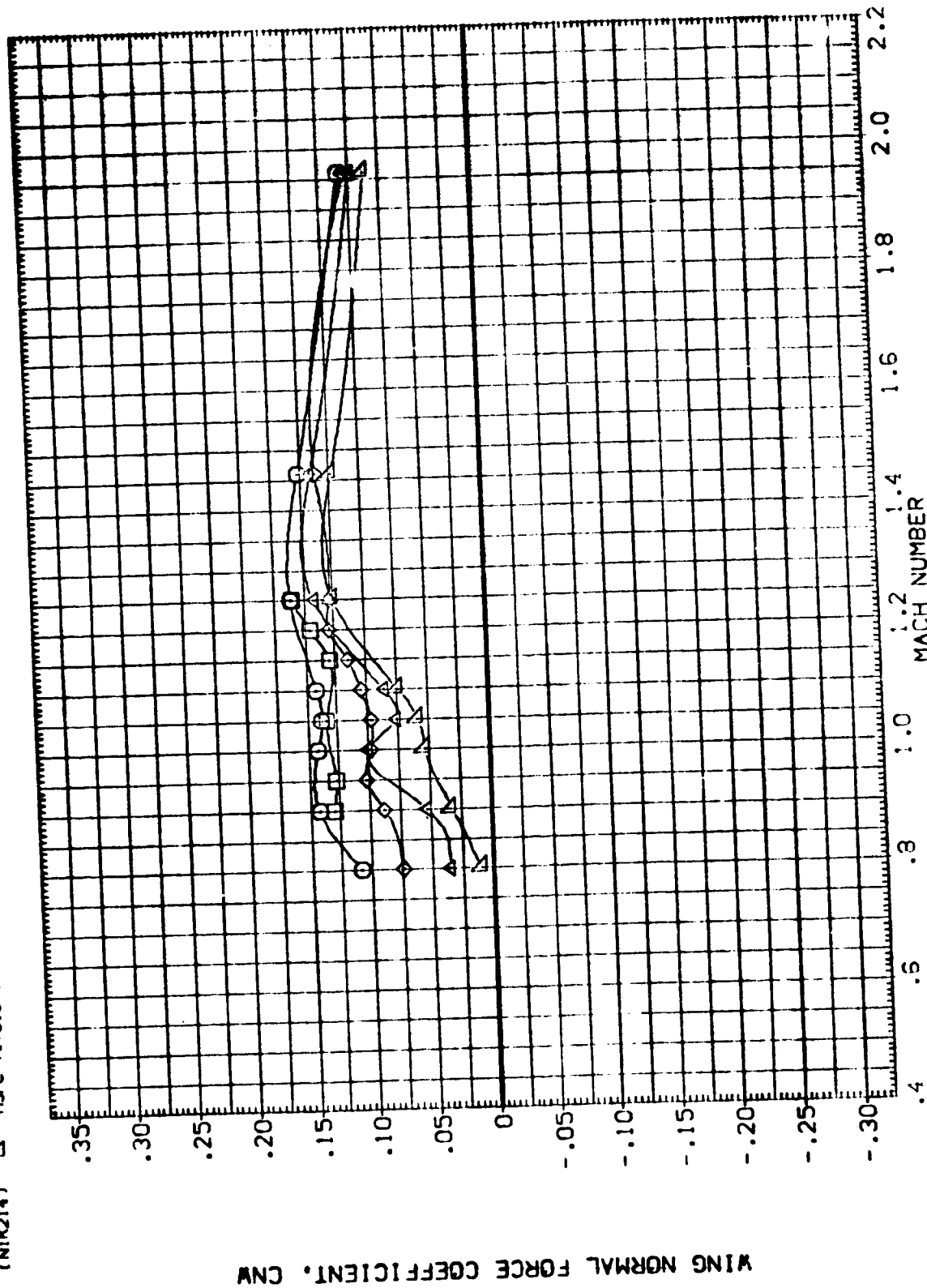


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

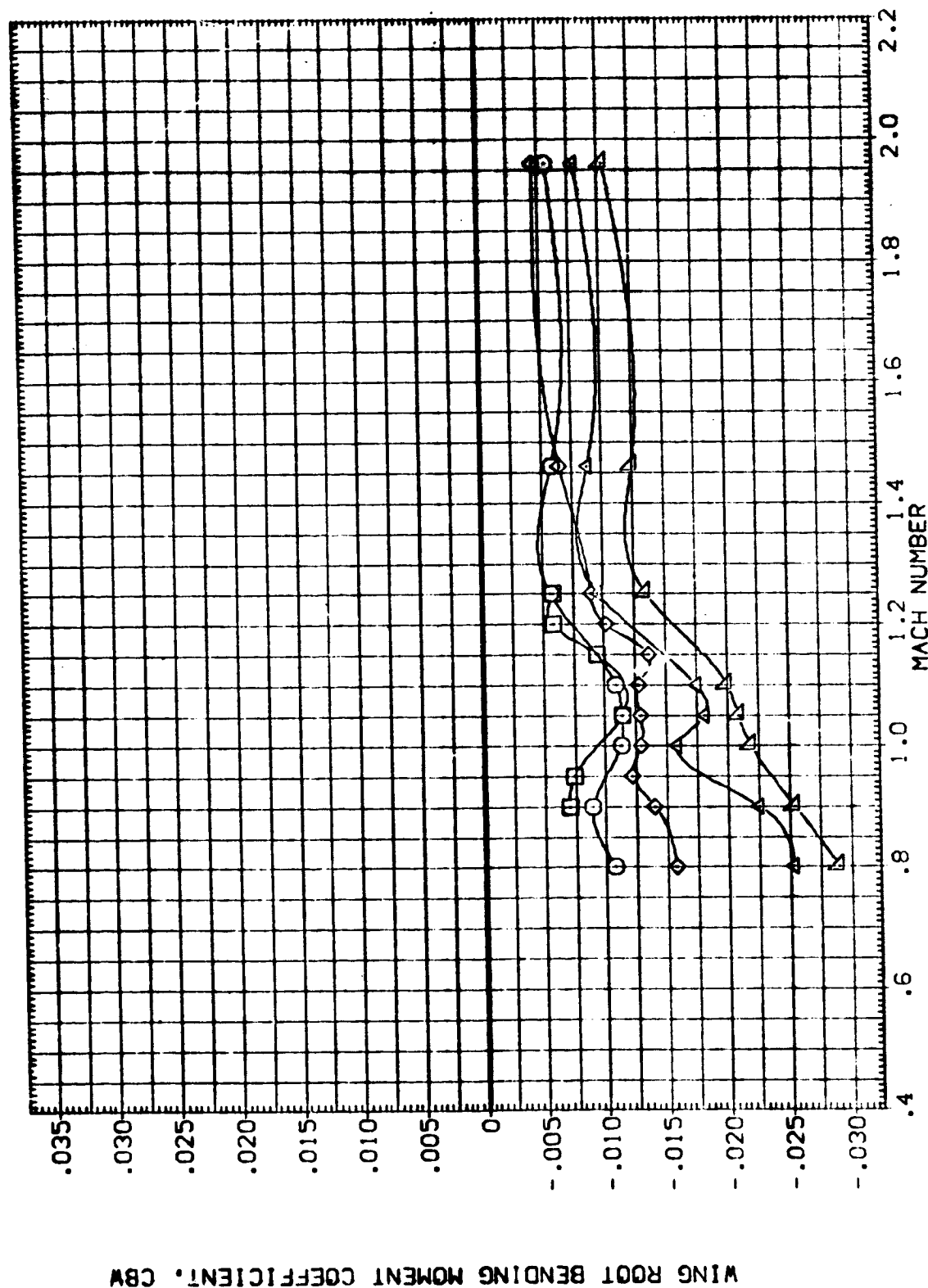
[illegible]

FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

$$(A)_{\text{ALPHA}} = -6.00$$



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPDR .000
10.000
20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK211) MSFC TVT610 (1A-71) 77-0.74-TS
(NIK212) MSFC TVT610 (1A-71) 77-0.74-TS
(NIK219) MSFC TVT610 (1A-71) 77-0.74-TS
(NIK216) MSFC TVT610 (1A-71) 77-0.74-TS
(NIK214) MSFC TVT610 (1A-71) 77-0.74-TS

WING ROOT BENDING MOMENT COEFFICIENT, CBW

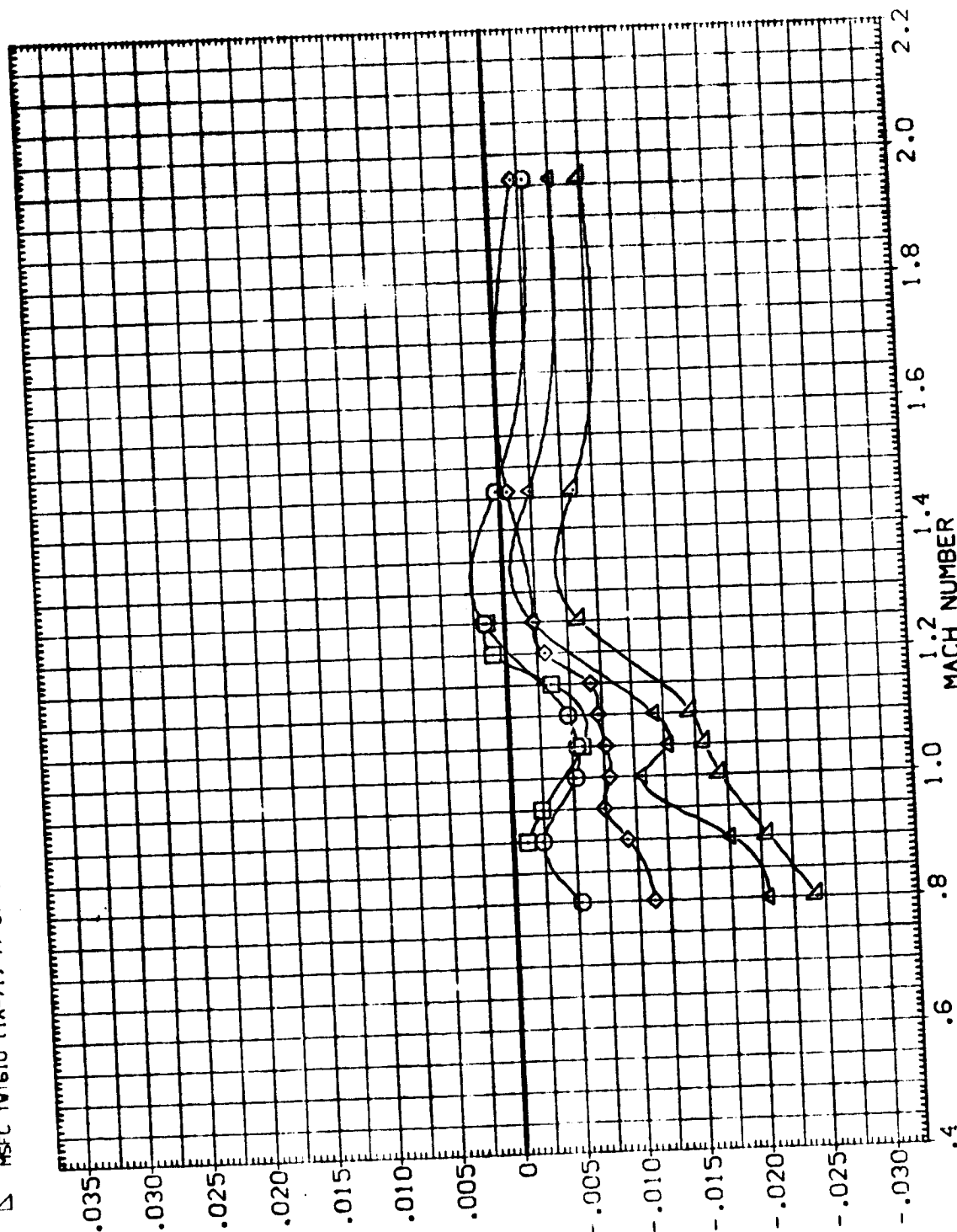


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(B) ALPHA = -4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000 .000 .000
DRBINC .000 .000 .000 .000
FLIPDR .000 .000 .000 .000
10.000 20.000 40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK211) MSFC TVT610 (IA-71) 77-0.74-TS
(NIK212) MSFC TVT610 (IA-71) 77-0.74-TS
(NIK219) MSFC TVT610 (IA-71) 77-0.74-TS
(NIK216) MSFC TVT610 (IA-71) 77-0.74-TS
(NIK214) MSFC TVT610 (IA-71) 77-0.74-TS

WING ROOT BENDING MOMENT COEFFICIENT, CBW

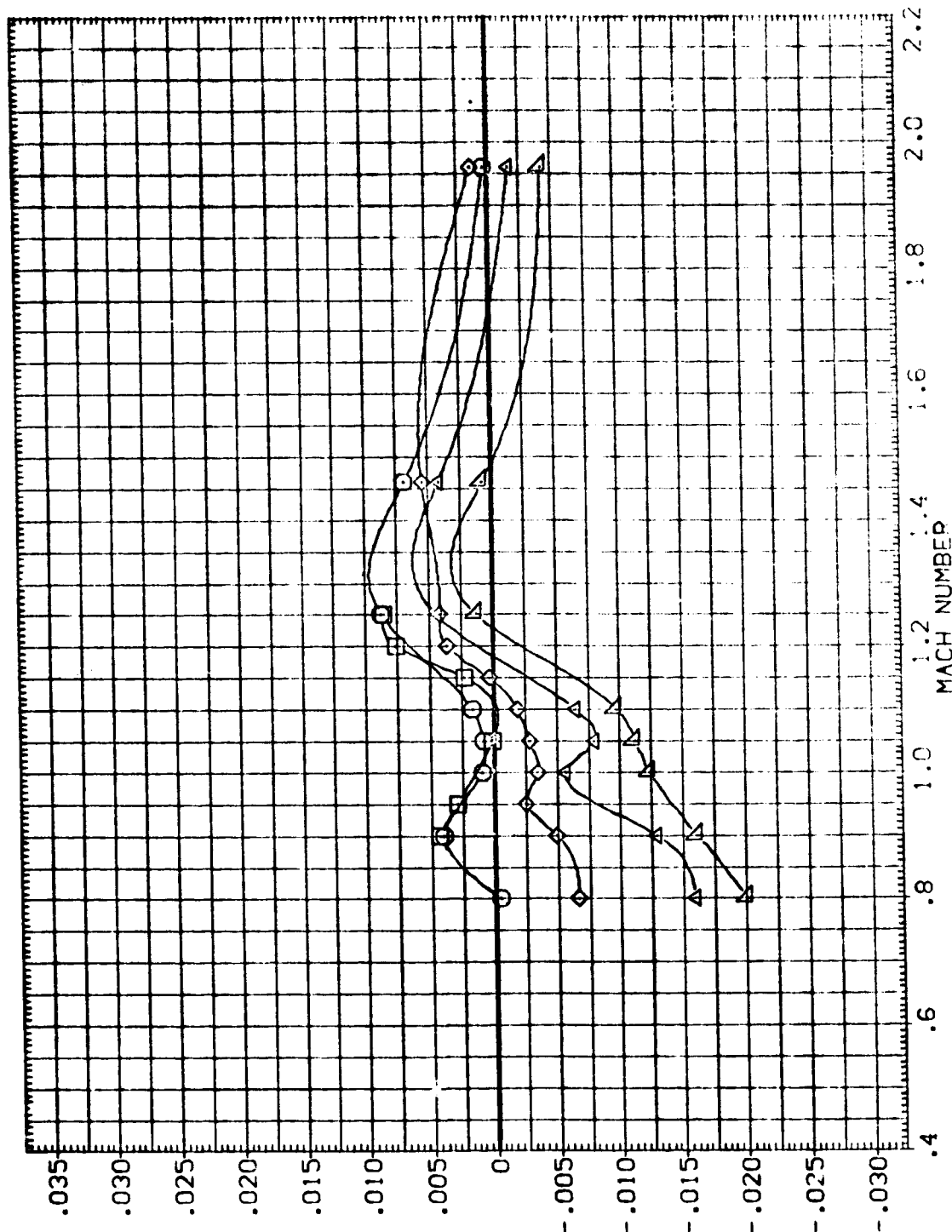


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(C)ALPHA = -2.00





SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBIT .000
FLIPOR .000
10.000
20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK211) MSFC TVT610 (A-71) 77-0.74-TS
(NIK212) MSFC TVT610 (A-71) 77-0.74-TS
(NIK219) MSFC TVT610 (A-71) 77-0.74-TS
(NIK216) MSFC TVT610 (A-71) 77-0.74-TS
(NIK214) MSFC TVT610 (A-71) 77-0.74-TS

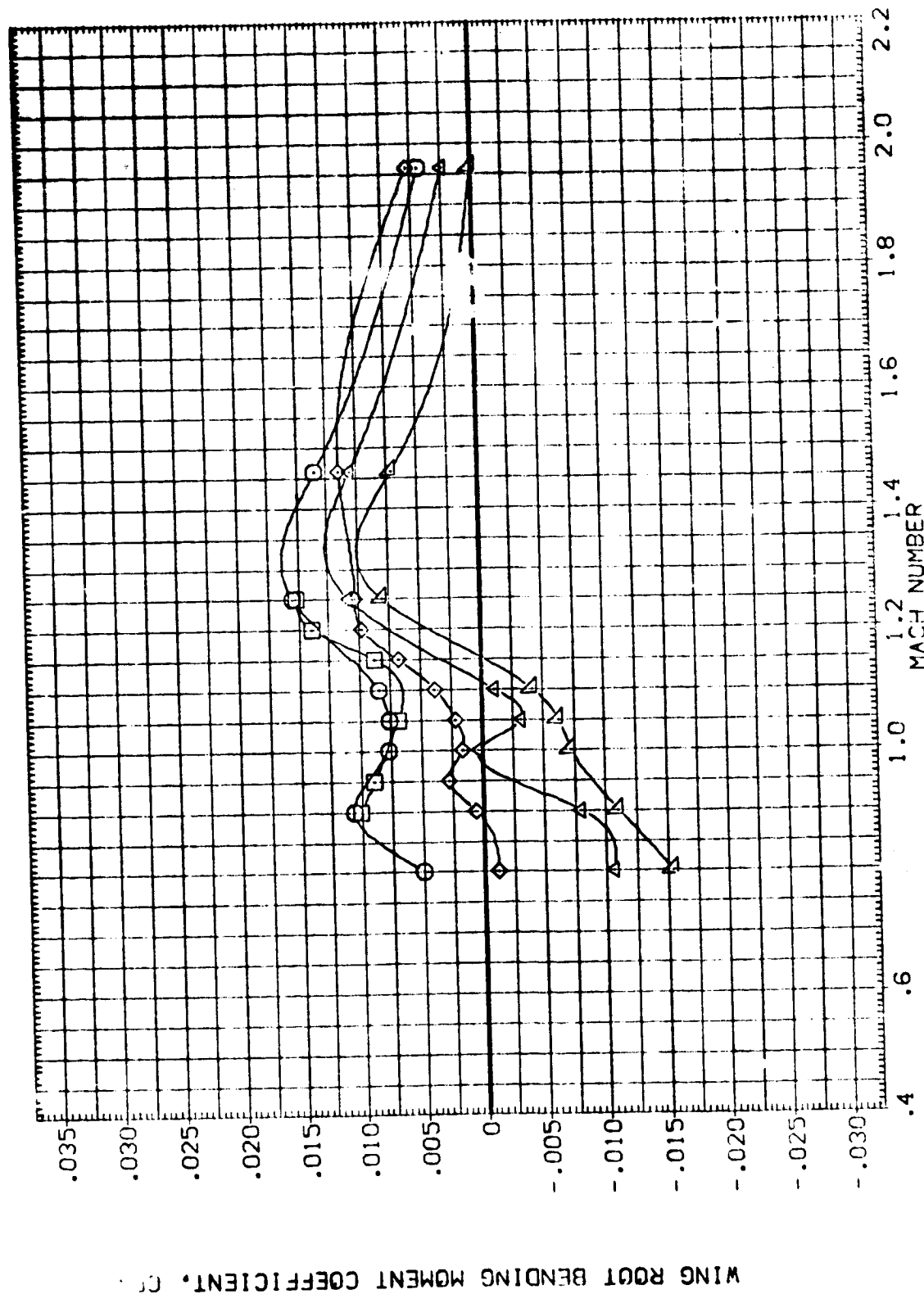


FIGURE 8 EFFECT OF FLIPOR DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(C)ALPHA = .00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPOR .000
10.000
20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(N1K211) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K212) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K213) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K214) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K215) MSFC TWT610 (1A-71) 77-0.74-TS

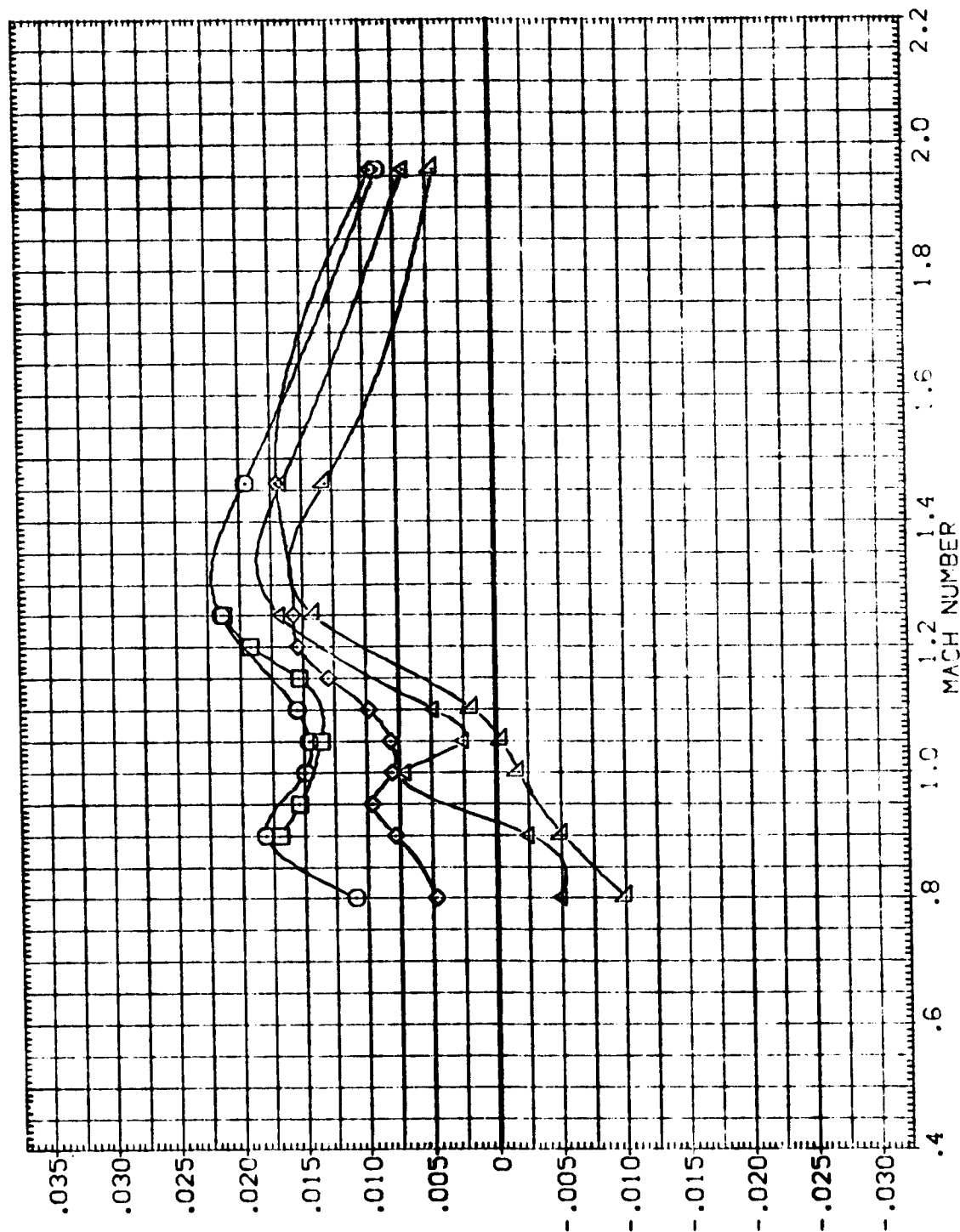


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(E) ALPHA = 2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
URBINC .000
FLIPDR .000
10.000
20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK211) MSFC TW1610 (1A-71) 77-0.74-TS
(NIK212) MSFC TW1610 (1A-71) 77-0.74-TS
(NIK219) MSFC TW1610 (1A-71) 77-0.74-TS
(NIK216) MSFC TW1610 (1A-71) 77-0.74-TS
(NIK214) MSFC TW1610 (1A-71) 77-0.74-TS

WING ROOT BENDING MOMENT COEFFICIENT, CB

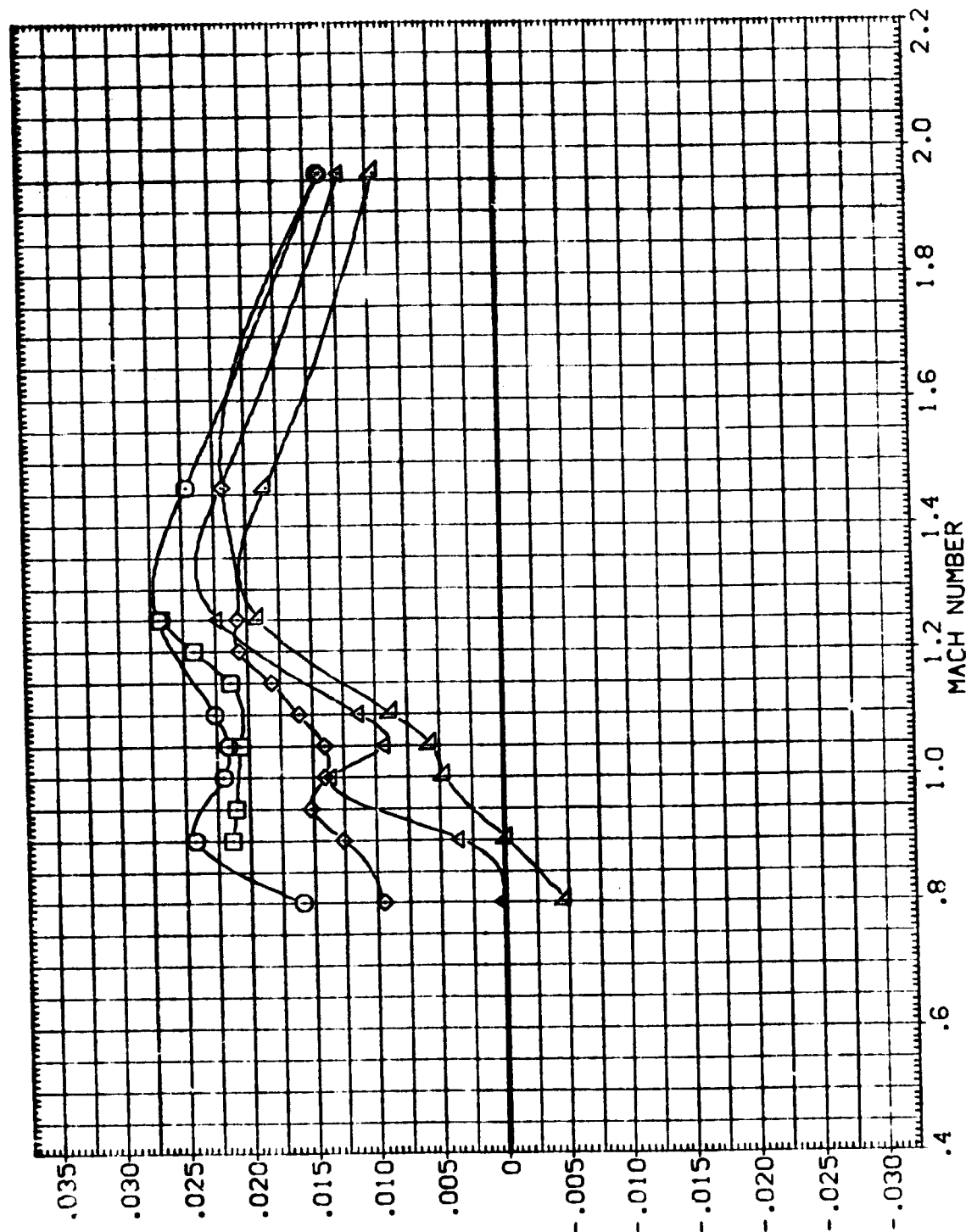


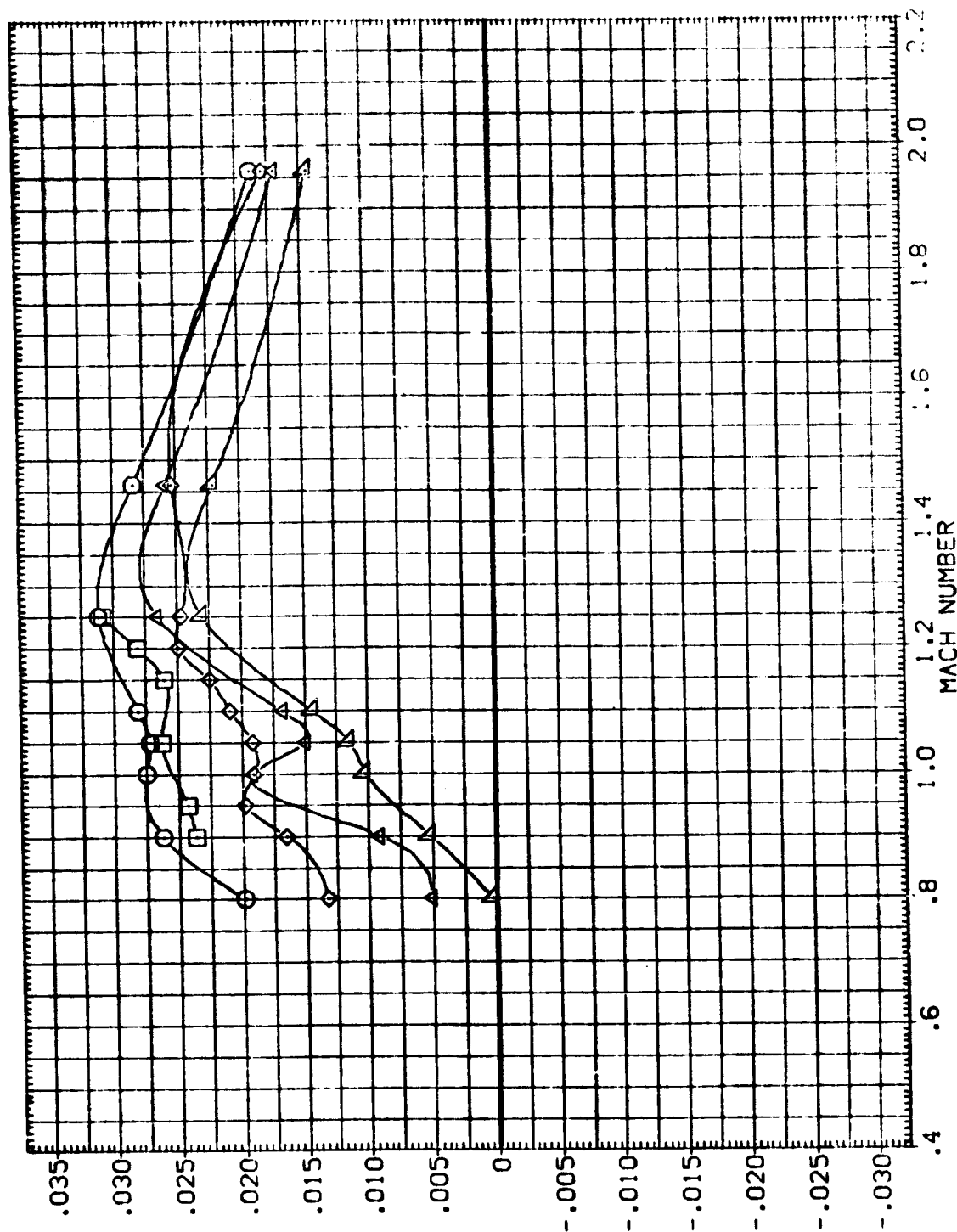
FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(F) ALPHA = 4:00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000 .000 .000
ORIGIN .000 .000 .000 .000
FLIPDR .000 .000 .000 .000
10.000 20.000 40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK211) MSFC TVT610 (IA-71) 77-0.74-TS
(NIK212) MSFC TVT610 (IA-71) 77-0.74-TS
(NIK213) MSFC TVT610 (IA-71) 77-0.74-TS
(NIK214) MSFC TVT610 (IA-71) 77-0.74-TS
(NIK215) MSFC TVT610 (IA-71) 77-0.74-TS
(NIK216) MSFC TVT610 (IA-71) 77-0.74-TS
(NIK217) MSFC TVT610 (IA-71) 77-0.74-TS



WING ROOT BENDING MOMENT COEFFICIENT, CBW

FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(G) ALPHA = 5.70

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
DBINC .000
FLIPDR .000
10.000
20.000
40.000

DATA SET SYMBO. CONFIGURATION DESCRIPTION
(N1K211) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K212) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K213) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K214) MSFC TVT610 (1A-71) 77-0.74-TS
Z10
Z10
Z10

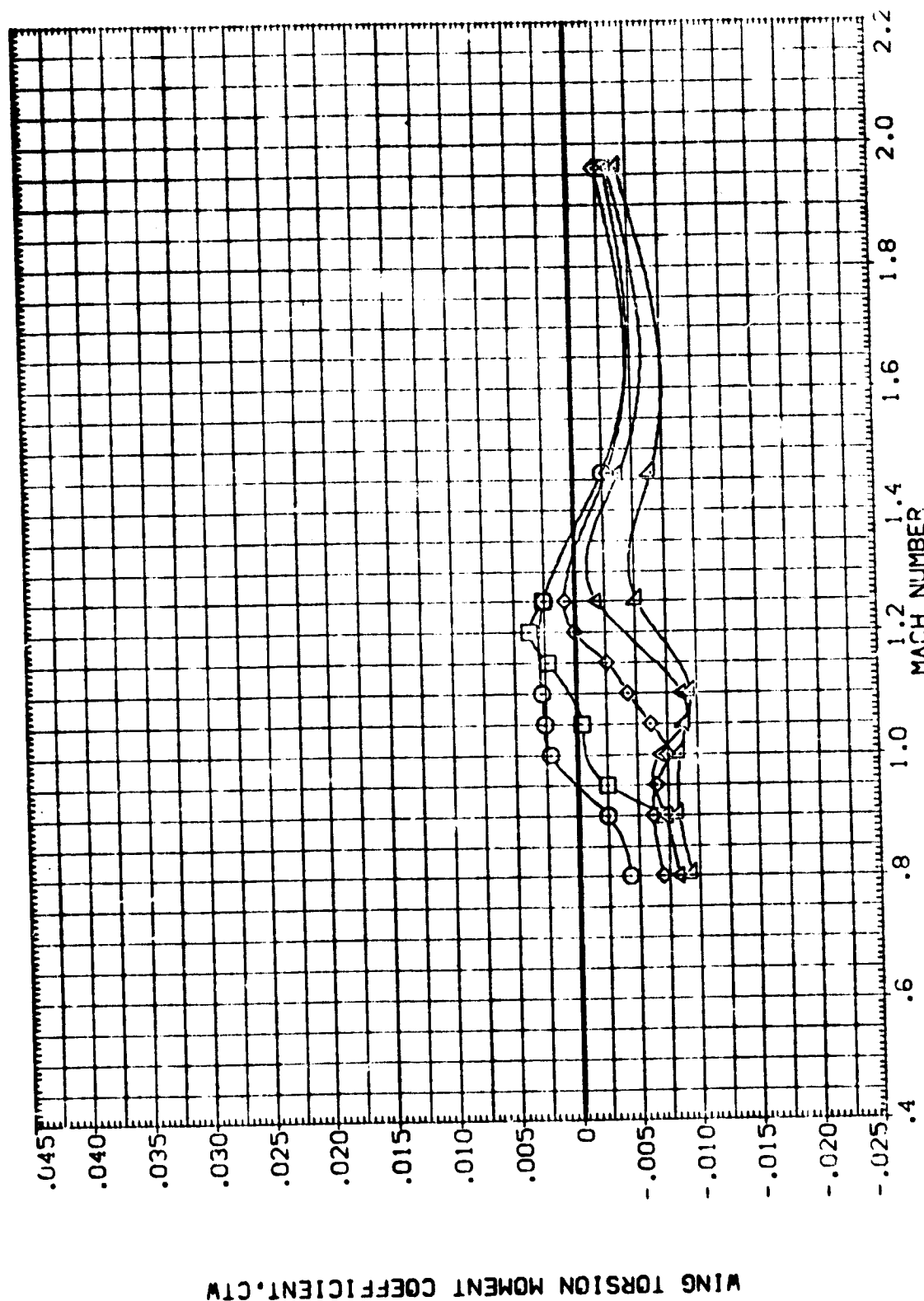


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPOR
.000 .000 .000
.000 .000 .000
.000 .000 10.000
.000 .000 20.000
.000 .000 40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K211) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K212) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K219) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K216) MSFC TWT610 (1A-71) 77-0.74-TS
(N1K214) MSFC TWT610 (1A-71) 77-0.74-TS

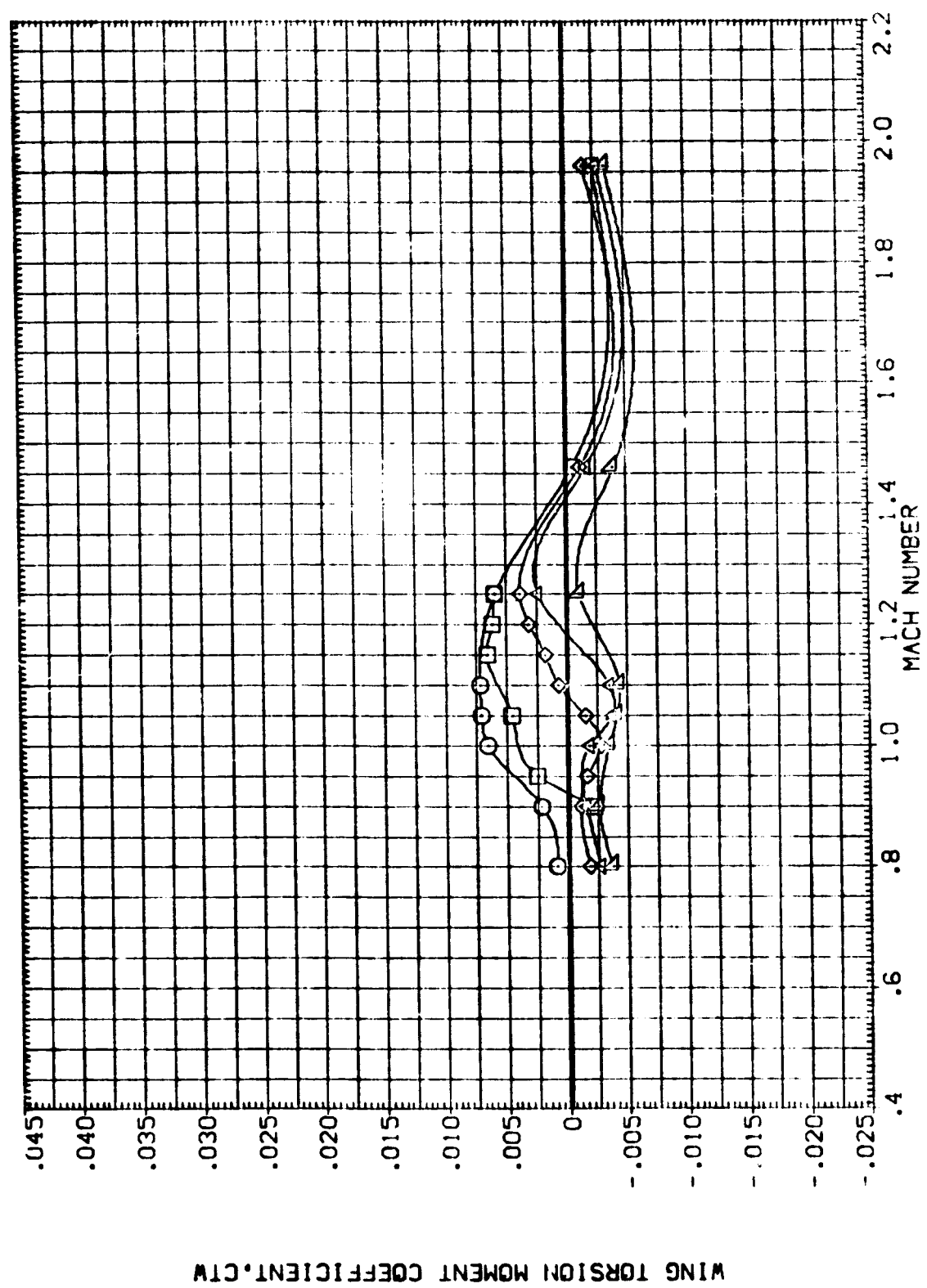


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(B) ALPHA = -4.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000 .000
ORBITC .000 .000 .000
FLIPDR .000 .000 .000
10.000
20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K211) MSFC TW610 (IA-71) 77-0.74-TS
(N1K212) MSFC TW610 (IA-71) 77-0.74-TS
(N1K213) MSFC TW610 (IA-71) 77-0.74-TS
(N1K214) MSFC TW610 (IA-71) 77-0.74-TS
(N1K215) MSFC TW610 (IA-71) 77-0.74-TS
(N1K216) MSFC TW610 (IA-71) 77-0.74-TS
(N1K217) MSFC TW610 (IA-71) 77-0.74-TS
(N1K218) MSFC TW610 (IA-71) 77-0.74-TS
(N1K219) MSFC TW610 (IA-71) 77-0.74-TS
(N1K220) MSFC TW610 (IA-71) 77-0.74-TS

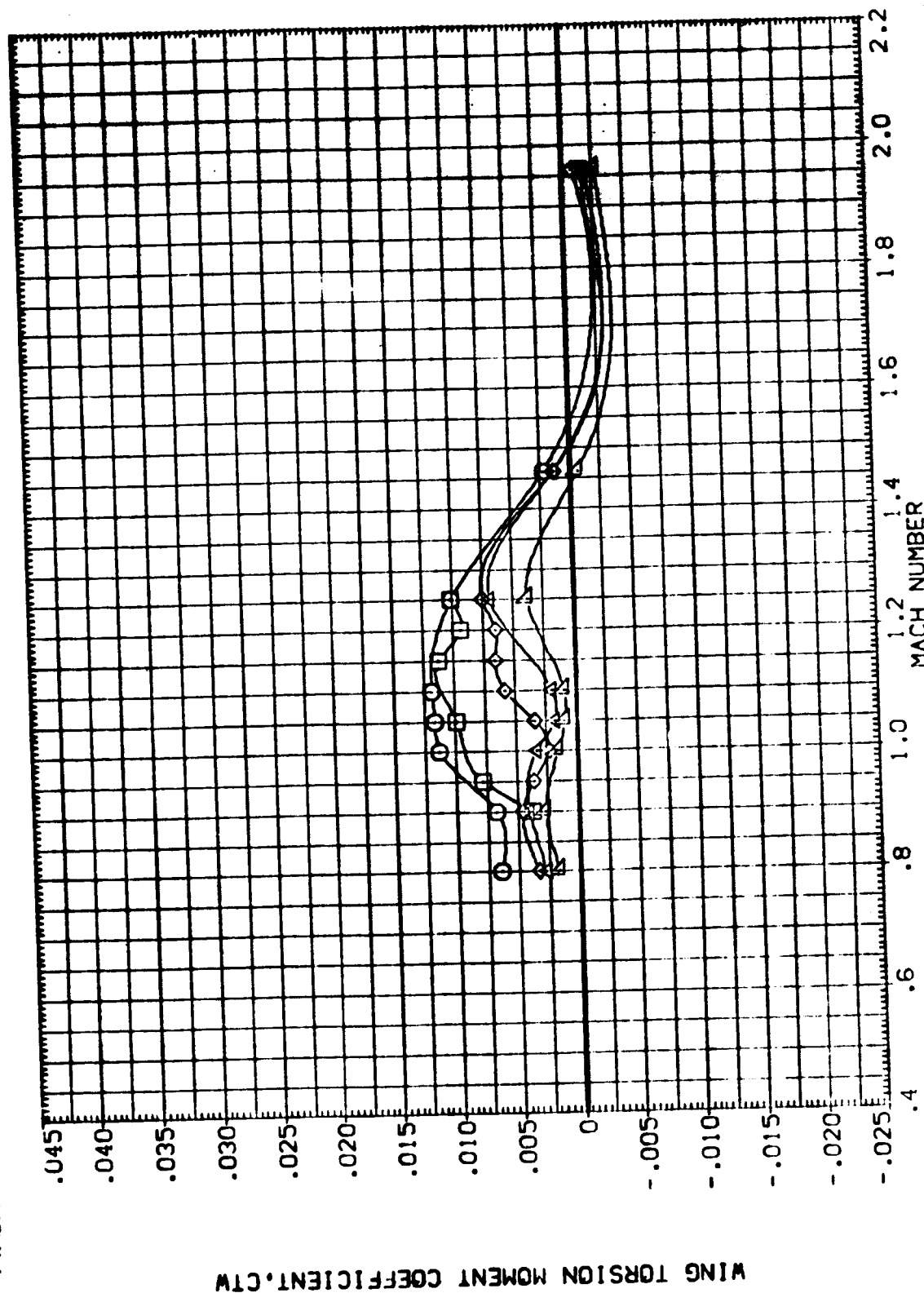


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(C) ALPHA = -2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA	ORBITC	FLIPOR
.000	.000	.000
.000	.000	.000
.000	.000	10.000
.000	.000	20.000
.000	.000	40.000

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(N1K211)	MSFC TWT610 (1A-71) 77-0.74-TS
(N1K212)	MSFC TWT610 (1A-71) 77-0.74-TS
(N1K219)	MSFC TWT610 (1A-71) 77-0.74-TS
(N1K216)	MSFC TWT610 (1A-71) 77-0.74-TS
(N1K214)	MSFC TWT610 (1A-71) 77-0.74-TS

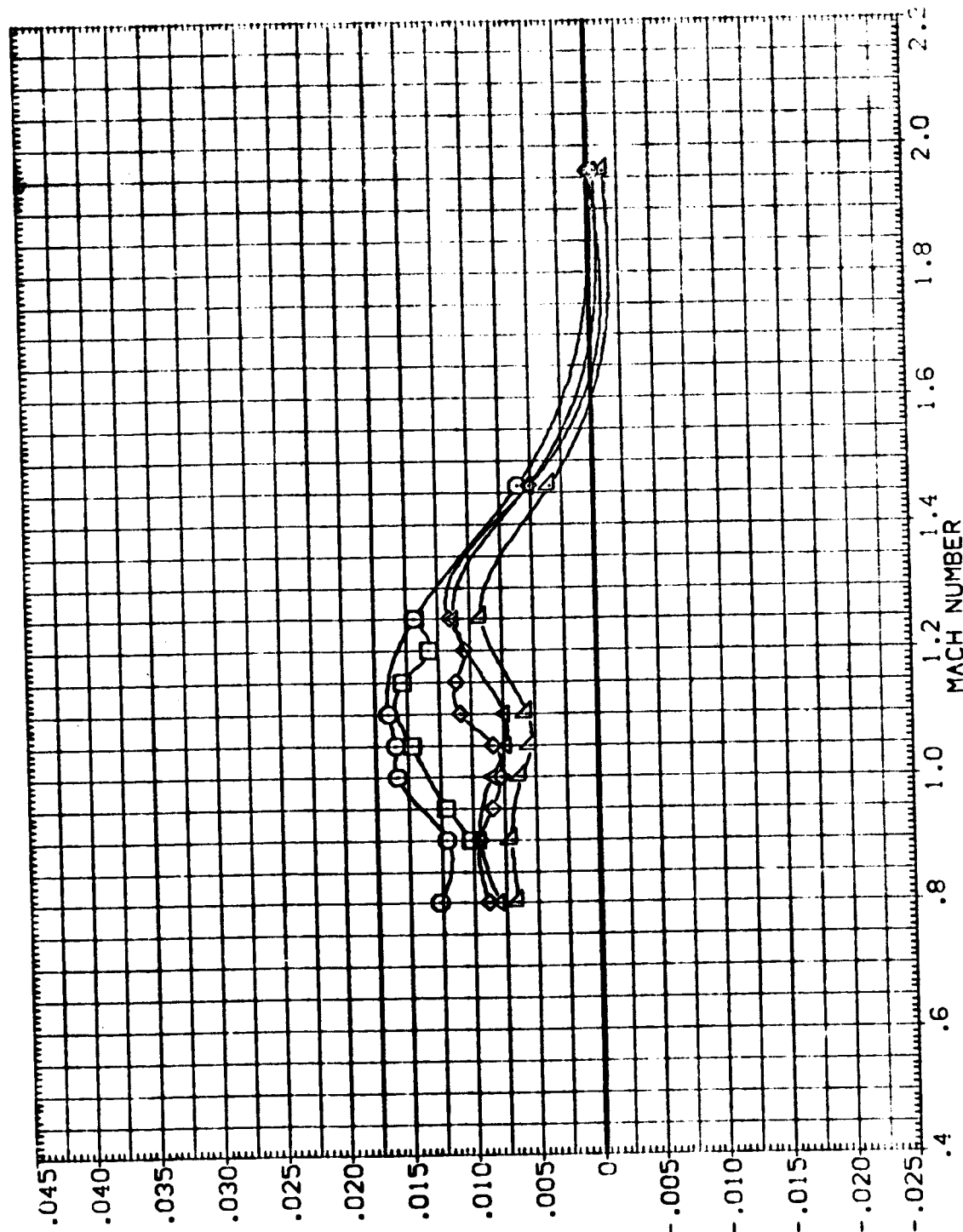


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(O) ALPHA = .00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA	ORB INC	FLIP OR
.000	.000	.000
.000	.000	.000
.000	.000	10.000
.000	.000	20.000
.000	.000	40.000

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(NIR211)	MSFC TVT610 (1A-71) 77-0.74-TS
(NIR212)	MSFC TVT610 (1A-71) 77-0.74-TS
(NIR219)	MSFC TVT610 (1A-71) 77-0.74-TS Z10
(NIR216)	MSFC TVT610 (1A-71) 77-0.74-TS Z10
(NIR214)	MSFC TVT610 (1A-71) 77-0.74-TS Z10

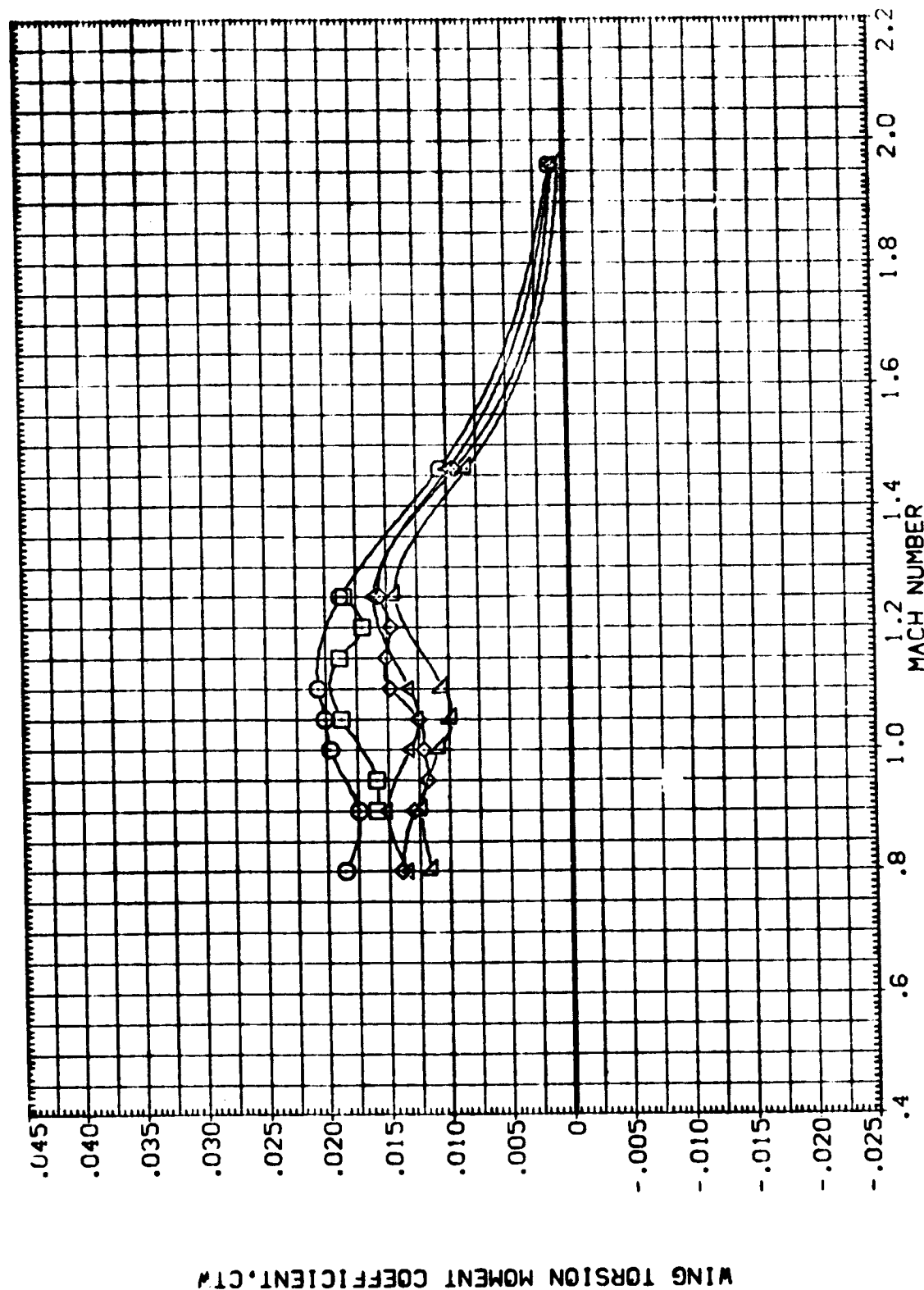


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(E) ALPHA = 2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORB INC .000
FLIPDR .000
10.000
20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIR211) MSFC TWT610 (1A-71) 77-0.74-TS
(NIR212) MSFC TWT610 (1A-71) 77-0.74-TS
(NIR219) MSFC TWT610 (1A-71) 77-0.74-TS
(NIR216) MSFC TWT610 (1A-71) 77-0.74-TS
(NIR214) MSFC TWT610 (1A-71) 77-0.74-TS

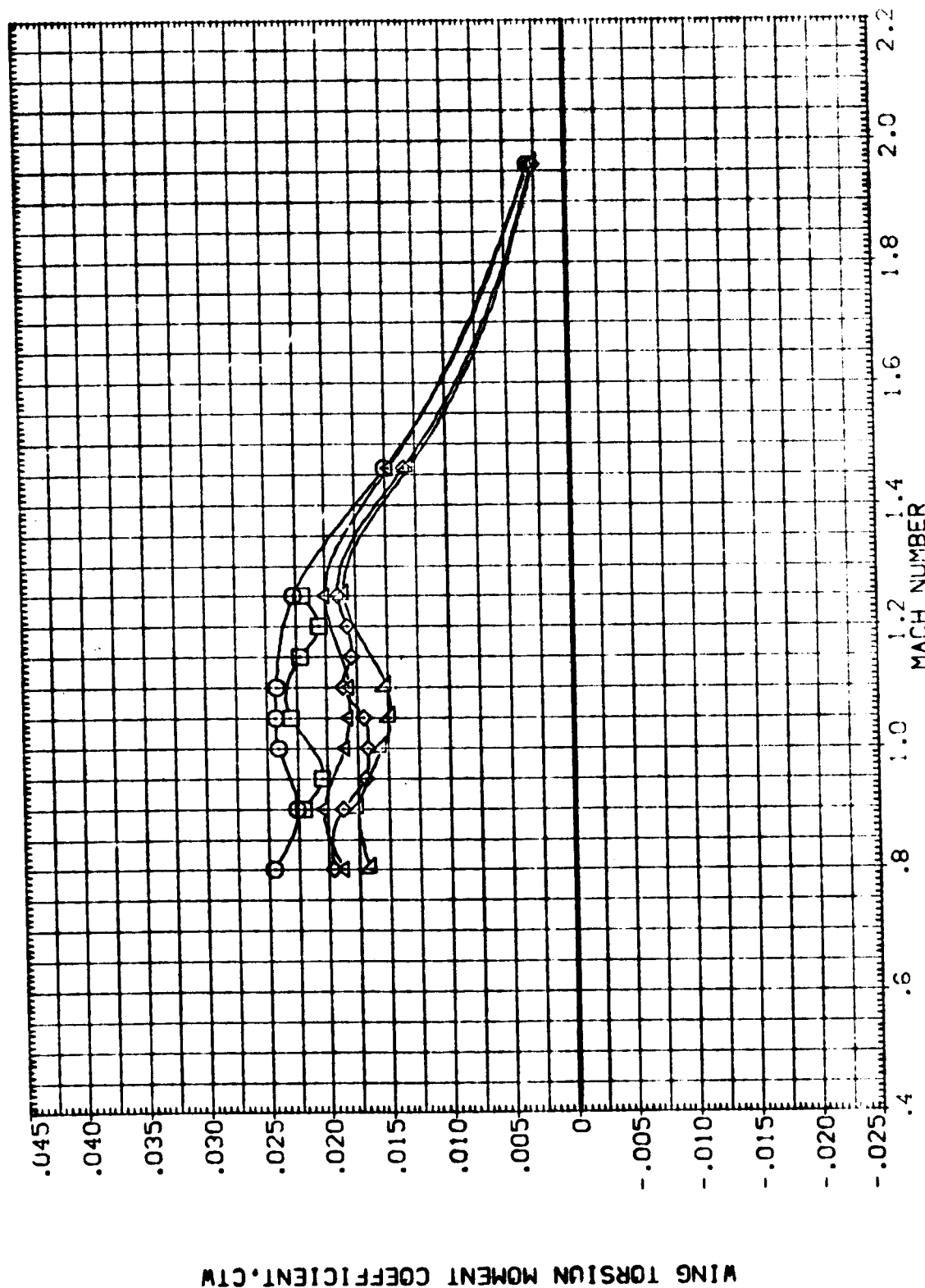


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(F) ALPHA = 4.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPDR .000
10.000
20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K211) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K212) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K219) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K216) MSFC TVT610 (1A-71) 77-0.74-TS
(N1K214) MSFC TVT610 (1A-71) 77-0.74-TS

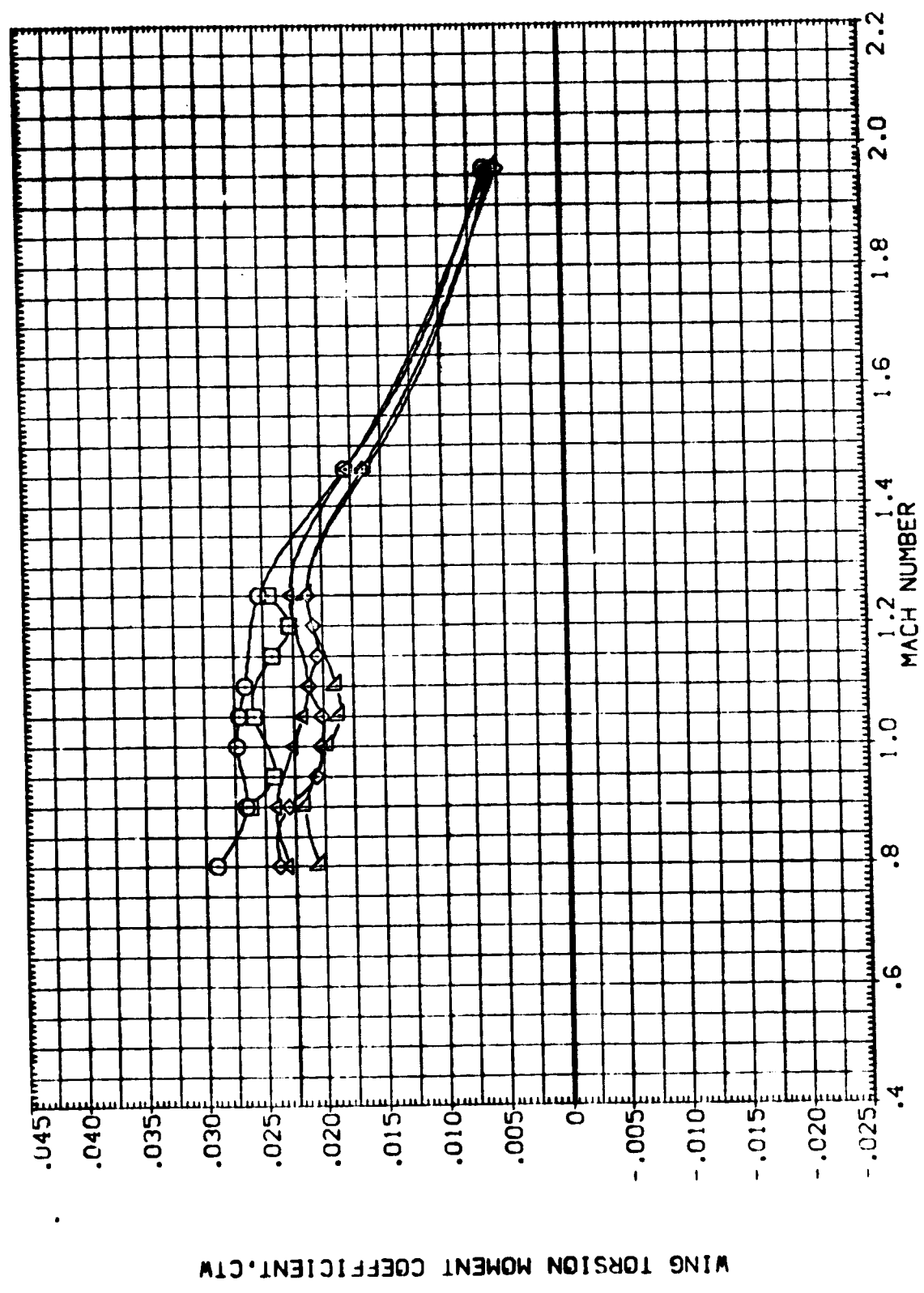


FIGURE 8 EFFECT OF FLIPPER DOOR DEFLECTION ON WING LOAD (77-0.74-TS)

(G)ALPHA = 5.70

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPDR
.000 .000 10.000
-3.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK219) MSFC TVT610 (1A-71) 77-0.74-TS Z10
(NIK220) MSFC TVT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

WING NORMAL FORCE COEFFICIENT, CNW

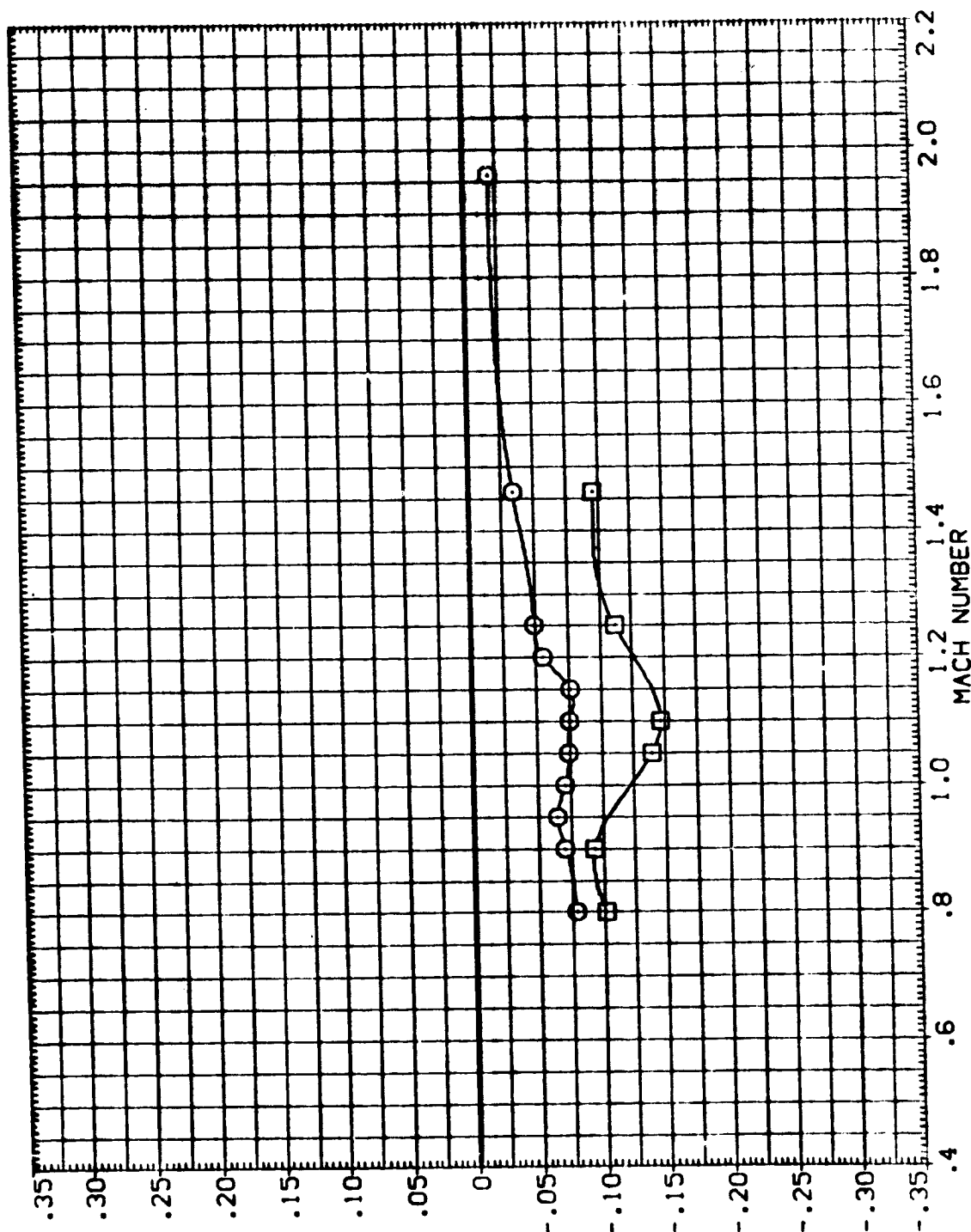


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(A) ALPHA = -6.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
JRB INC .000
FLIPDR 10.000
.000
.000

DATA SET SYMBOL
(NIK219)
(NIK220)
CONFIGURATION DESCRIPTION
MSFC TVT610 (1A-71) 77-0.74-TS Z10
MSFC TVT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

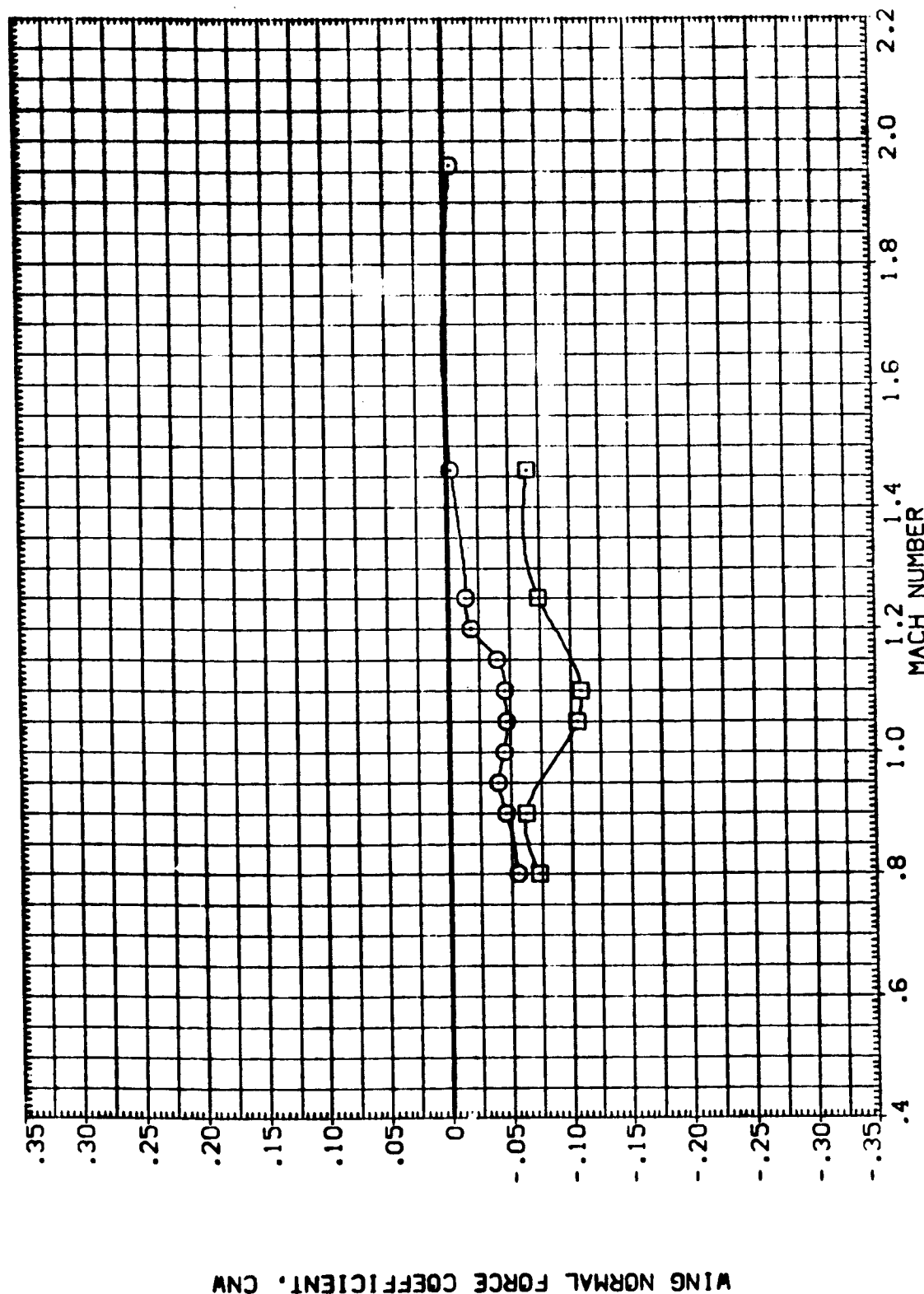


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(B) ALPHA = -4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPDR 10.000

DATA SET SYMBOL
(N1K219) 8
(N1K220) 8
CONFIGURATION DESCRIPTION
MSFC TV7610 (1A-71) 77-8-74-TS Z10
MSFC TV7610 (1A-71) 77-8-74-TS Z10 (INCIDENCE)

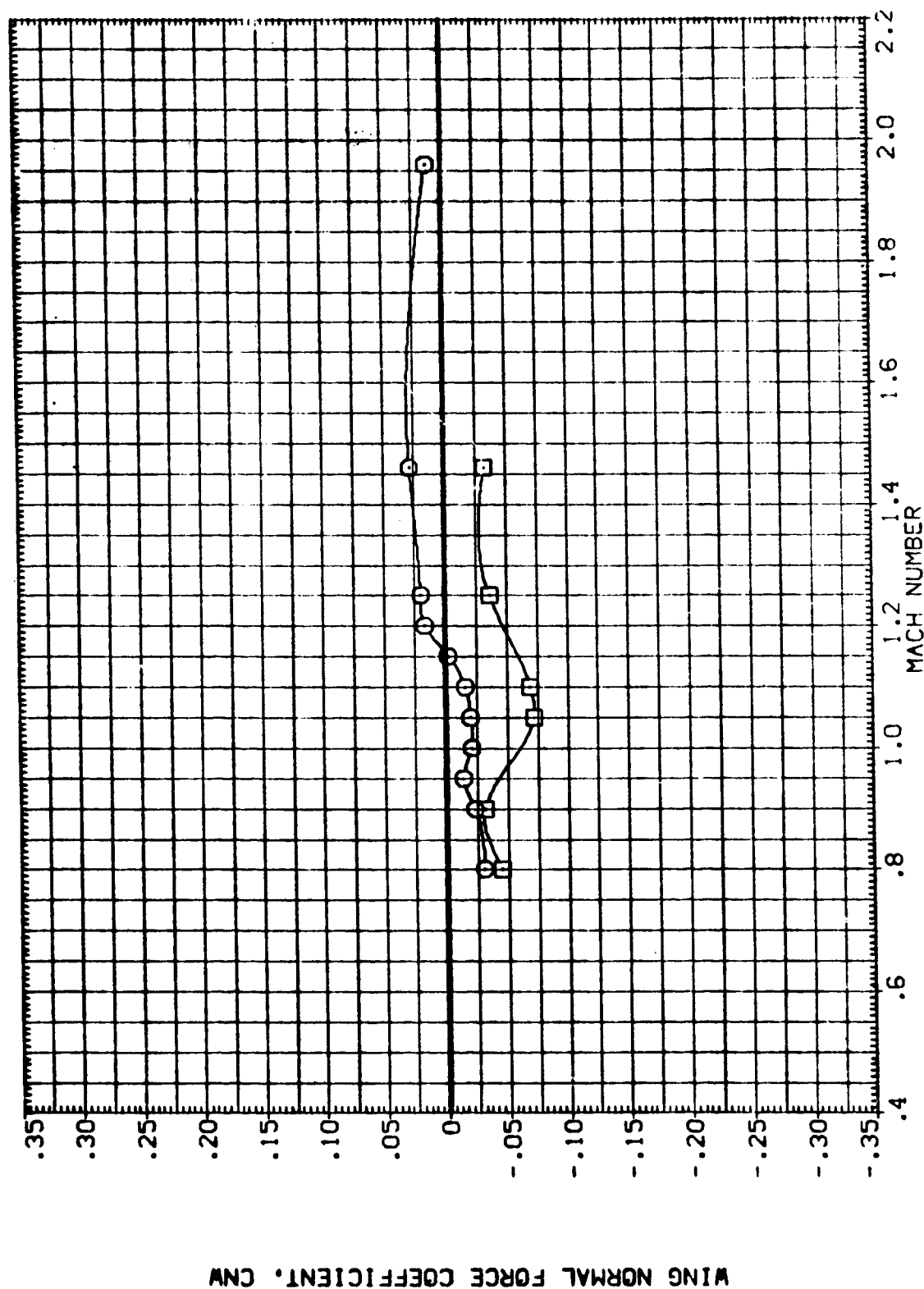


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(C) ALPHA = -2.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPOR
.000 .000 10.000
.000 -3.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K219) MSFC TWT610 (1A-71) 77-0.74-TS Z10
(N1K220) MSFC TWT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

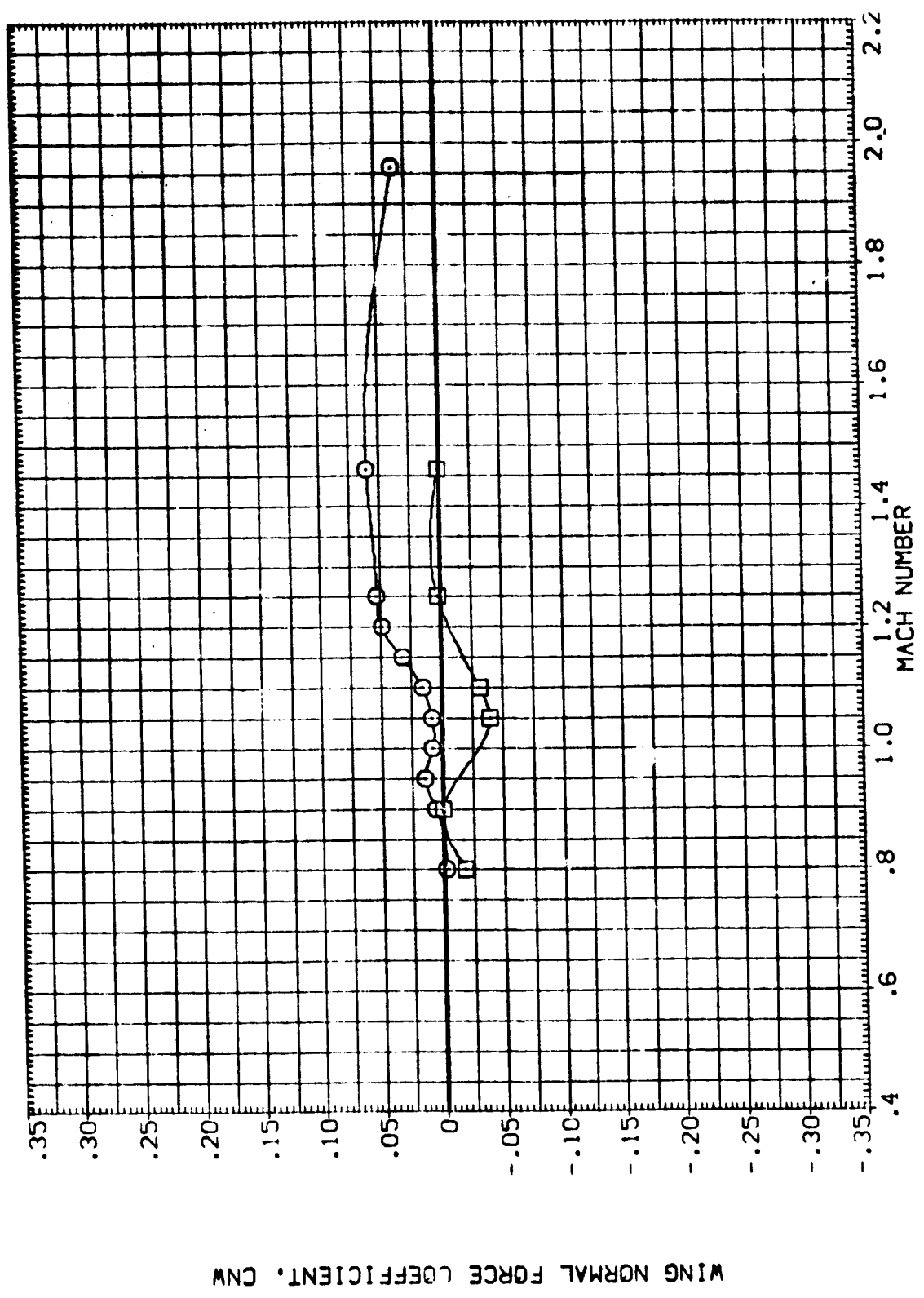


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(0) ALPHA = .00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPOR 10.000

CONFIGURATION DESCRIPTION
MSFC 1WT610 (1A-71) 77-0.74-TS Z10
MSFC 1WT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

DATA SET SYMBOL
(N1K219)
(N1K220)

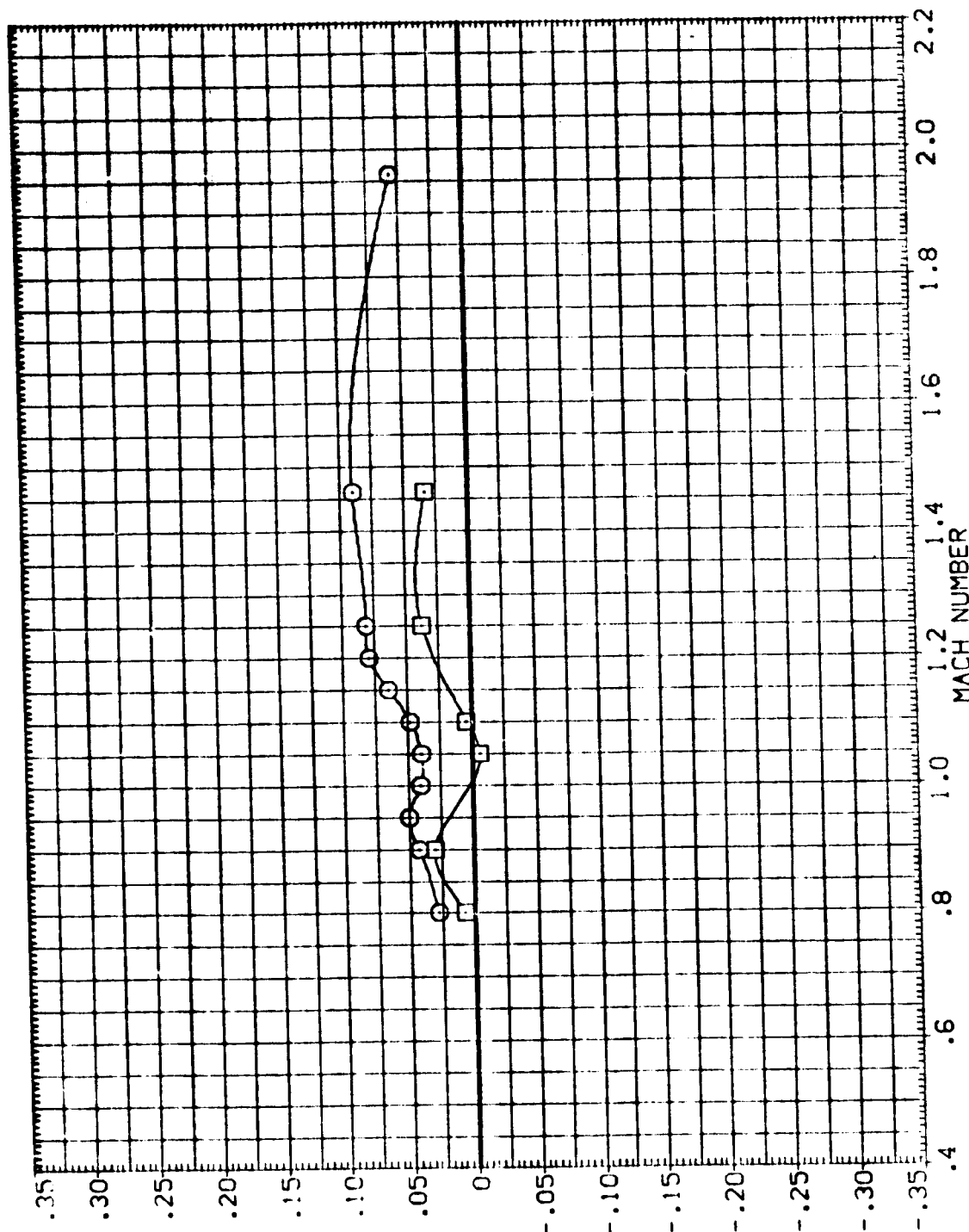


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(E) ALPHA = 2.00





SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000
ORBITAL .000 .000
FLIPDR 10.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK219) MSFC TVT610 (1A-71) 77-0.74-TS Z10
(NIK220) MSFC TVT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

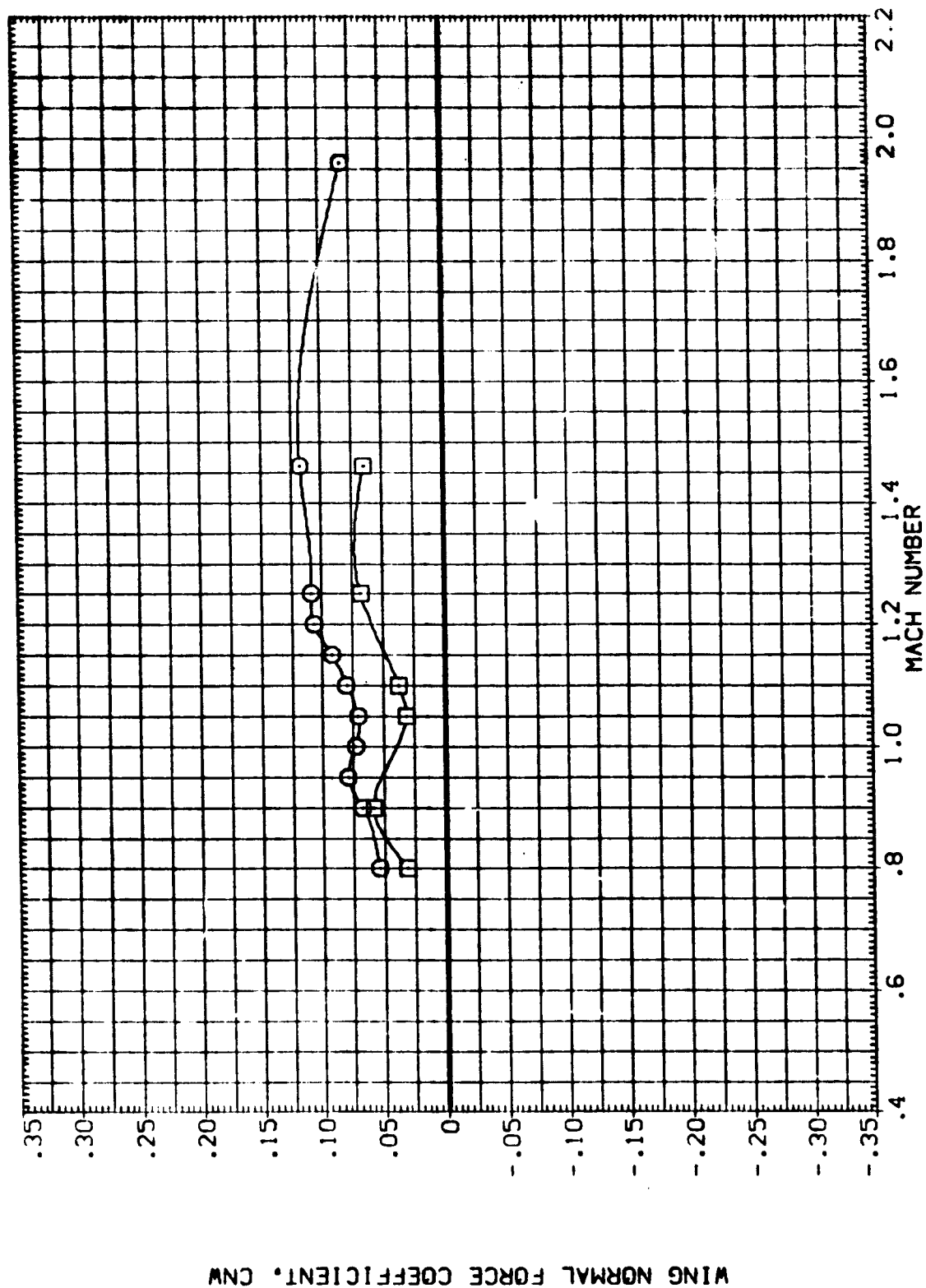


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(F) ALPHA = 4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORB INC FLIPDR
.000 .000 10.000
-3.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K219) MSFC TVT610 (1A-71) 77-0.74-TS Z10
(N1K220) MSFC TVT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

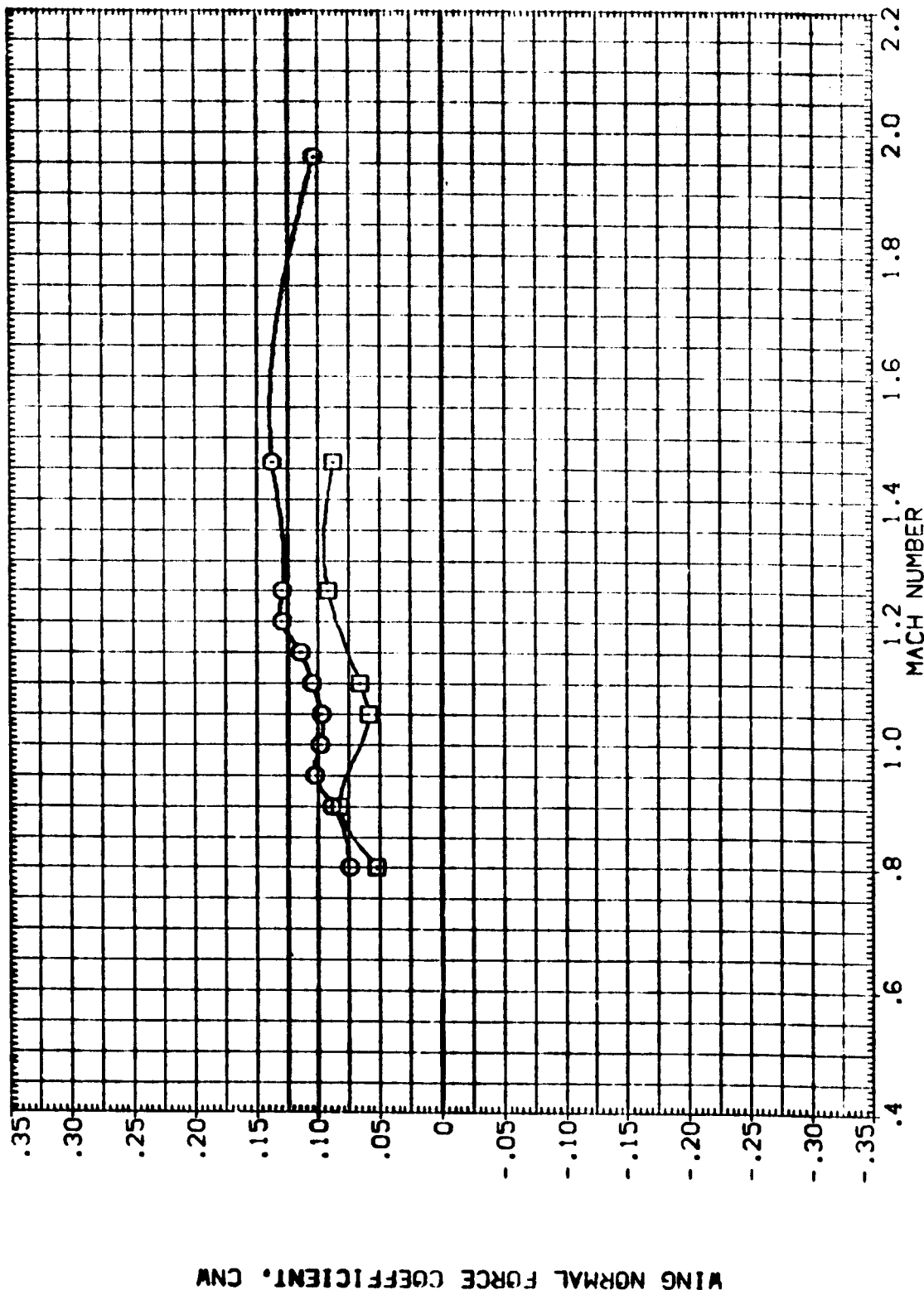




FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(G)ALPHA = 5.70



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPOR
.000 .000 10.000
.000 -3.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K219)  MSFC TWT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)
(N1K220)  MSFC TWT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

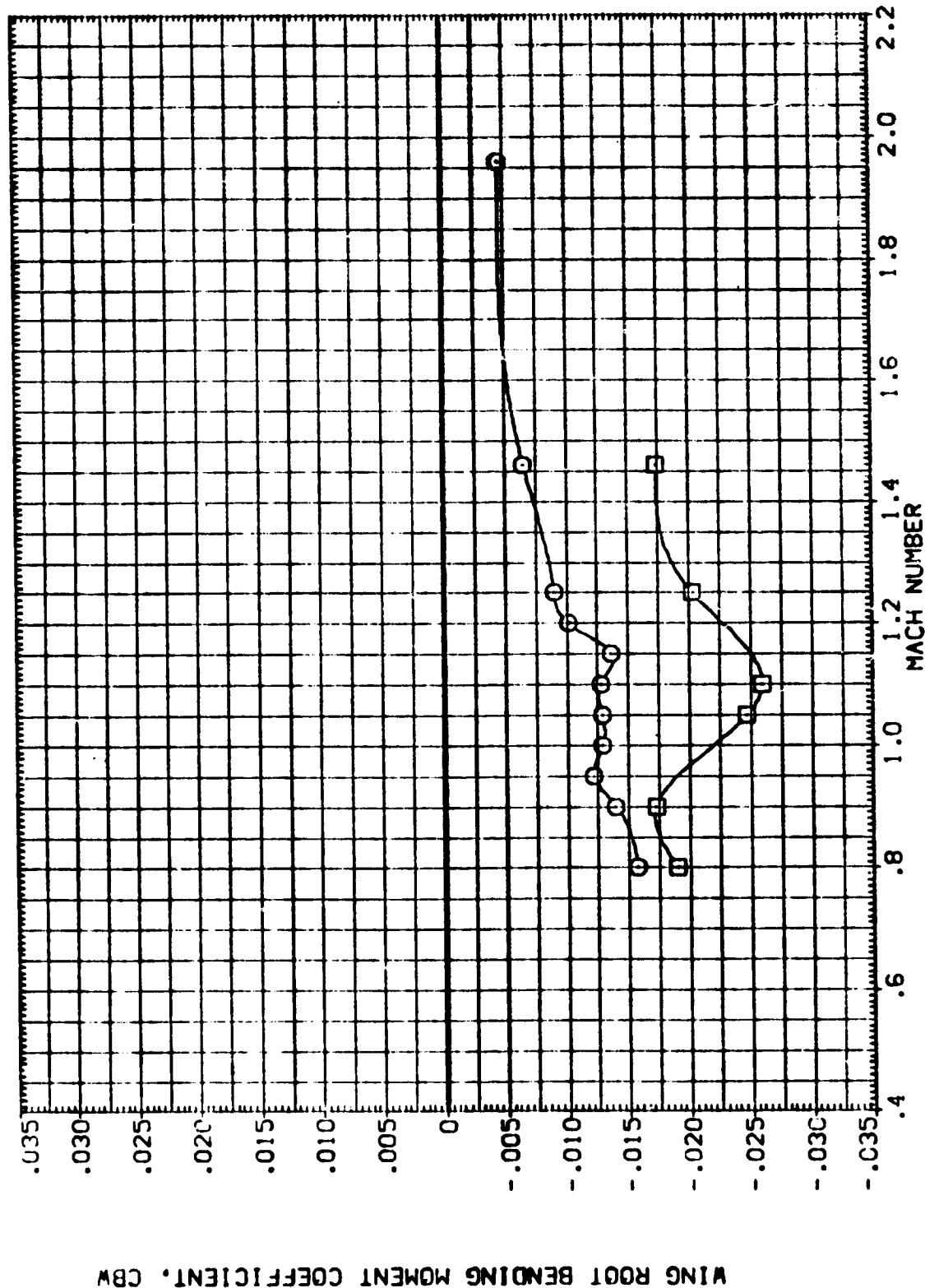


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(A) ALPHA = -6.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORB INC .000
FLIPDR 10.000

DATA SET SYMBOL: (N1K219)
CONFIGURATION DESCRIPTION: MSFC TWT610 (1A-71) 77-0.74-1S Z10
(N1K220) MSFC TWT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

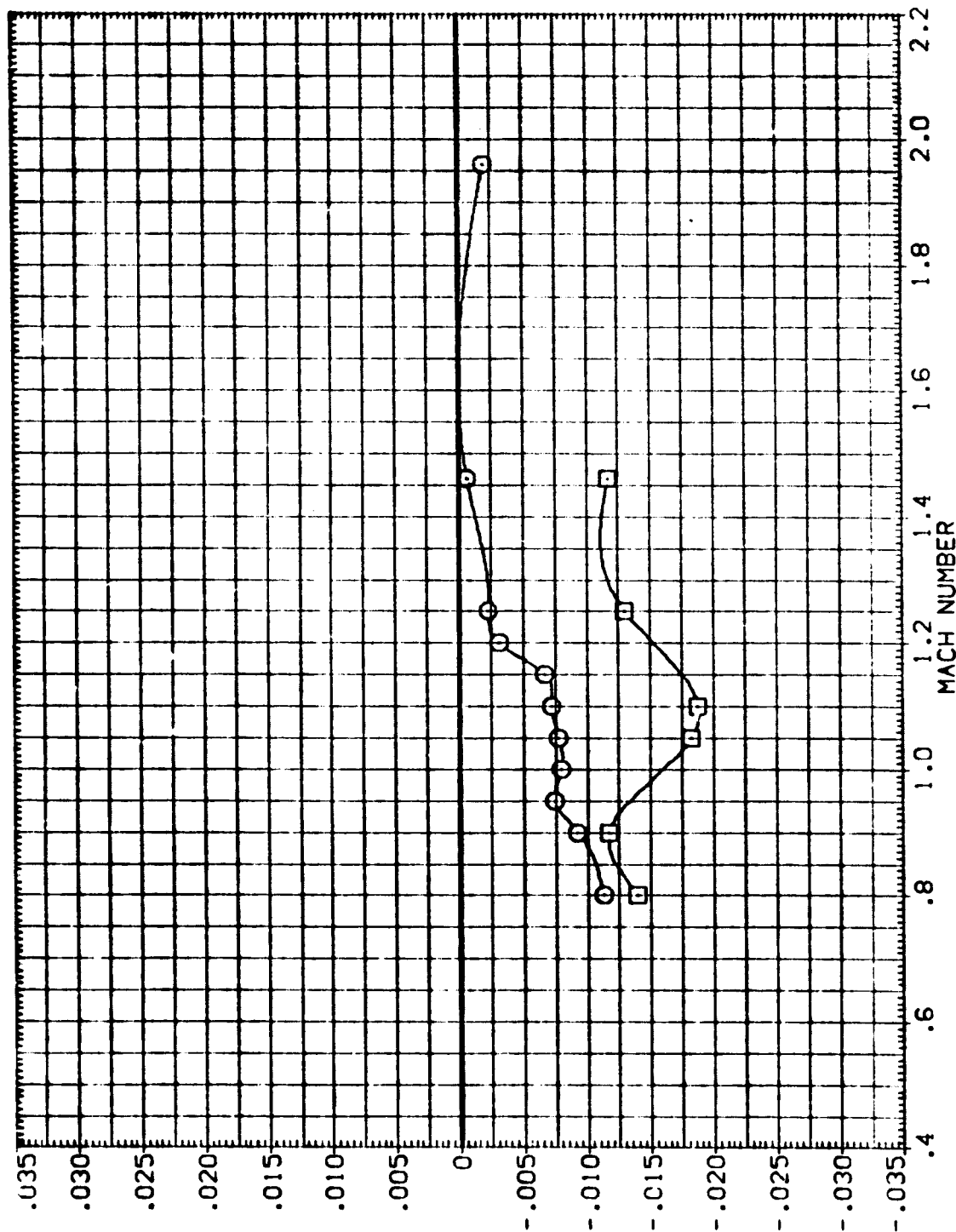


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(B) ALPHA = -4.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORB INC .000
FLIPDR 10.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K219) MSFC TWT610 (1A-71) 77-0.74-TS Z10
(N1K220) MSFC TWT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

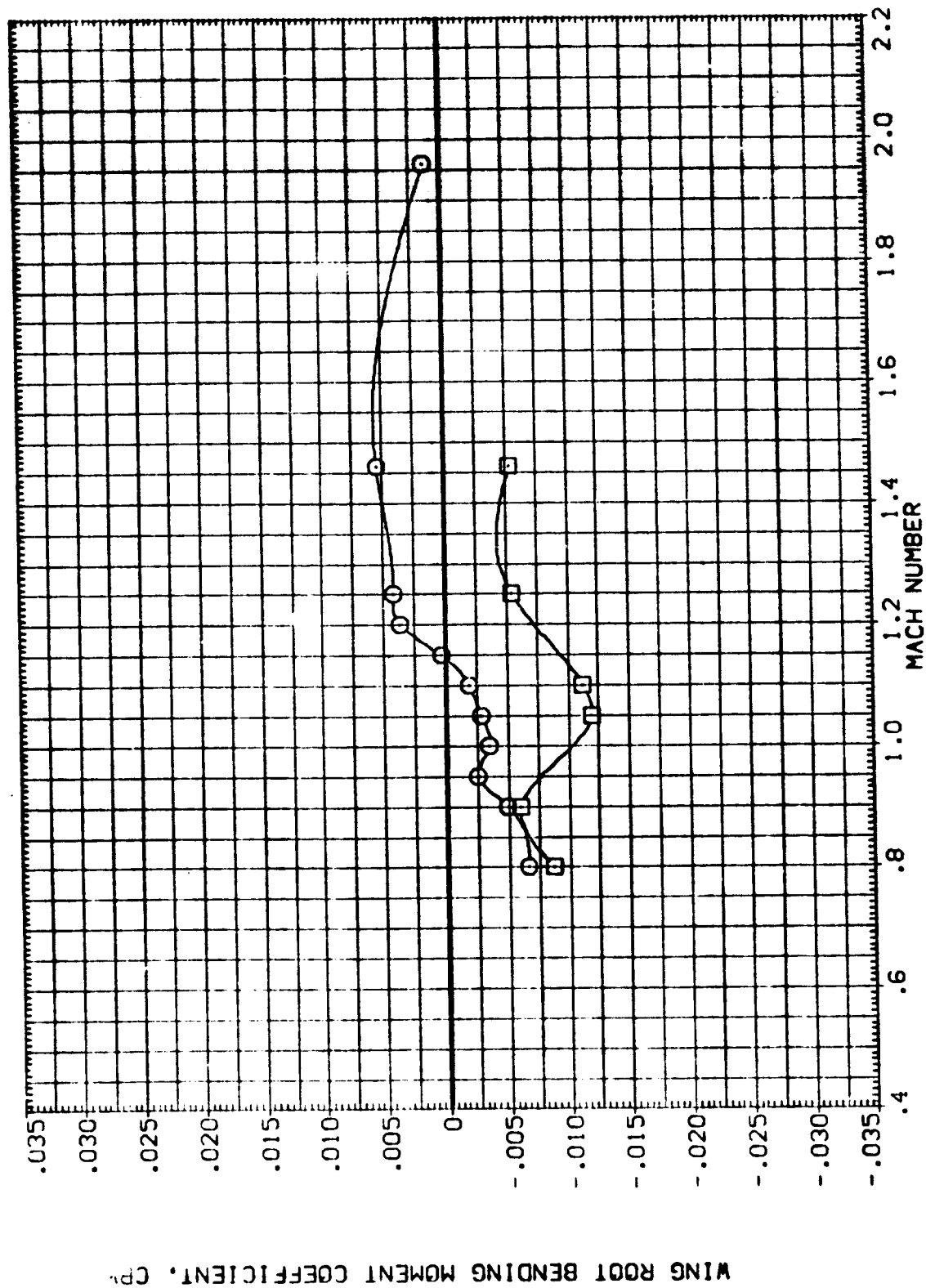


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(C)ALPHA = -2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA FLIPOR
.000 10.000
-3.000 .000

CONFIGURATION DESCRIPTION
77-0.74-TS Z10
77-0.74-TS Z10 (INCIDENCE)

DATA SET SYMBOL
(N1K219)
(N1K220)

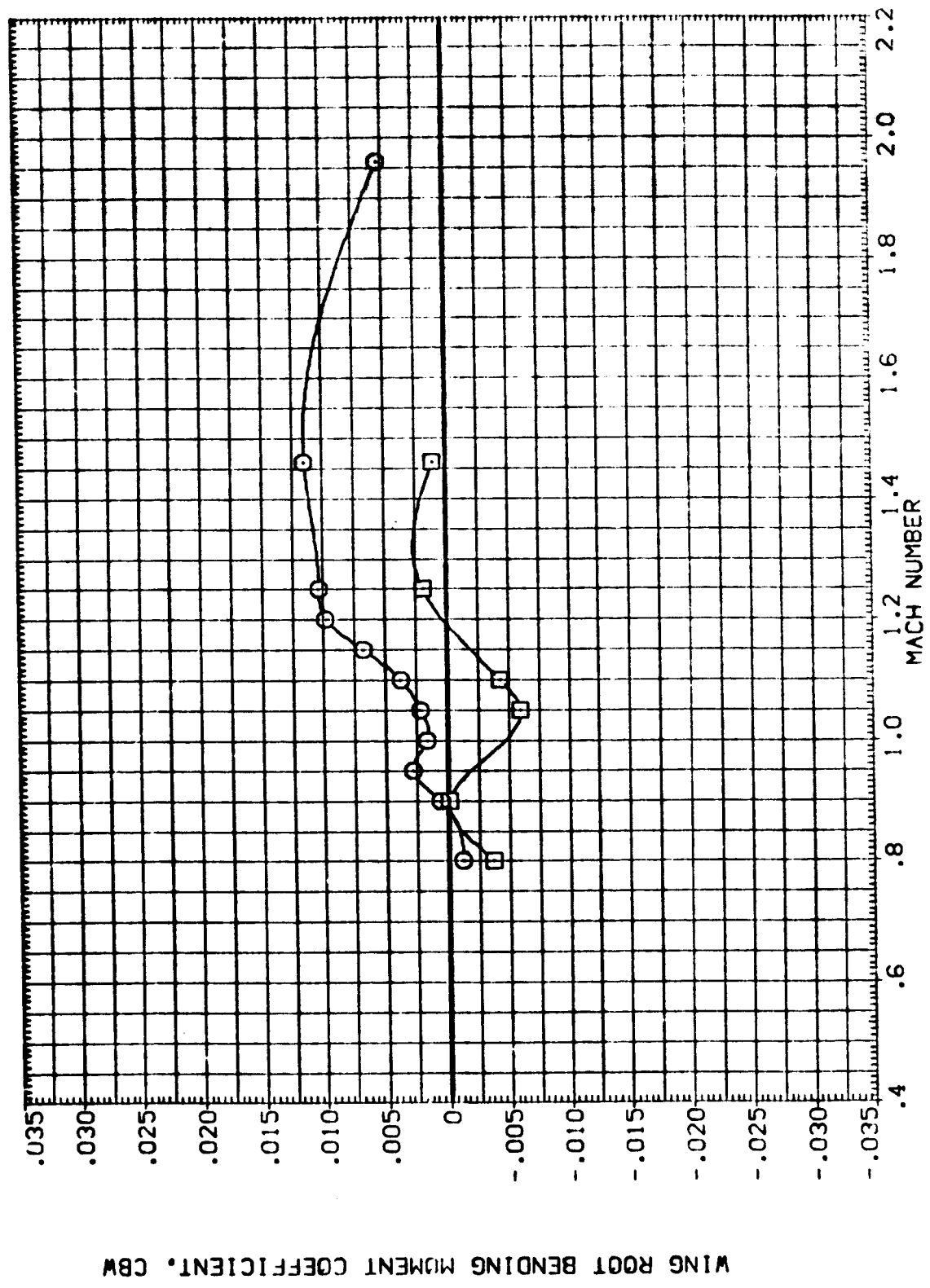


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(D) ALPHA = .00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000
ORBIT INC .000 -3.000
FLIPDR 10.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK219) MSFC TUT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)
(NIK220) MSFC TUT610 (1A-71) 77-0.74-TS Z10

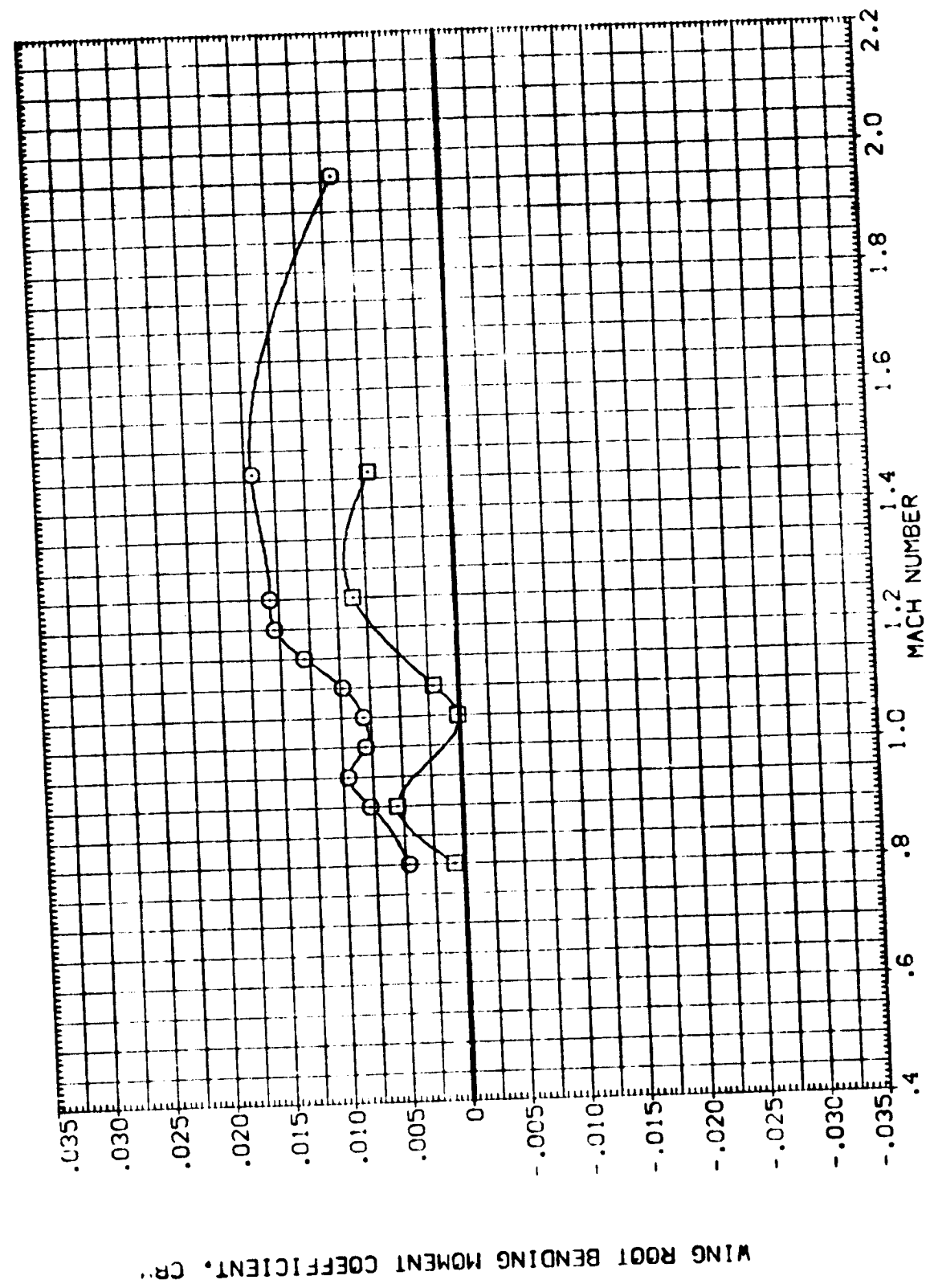


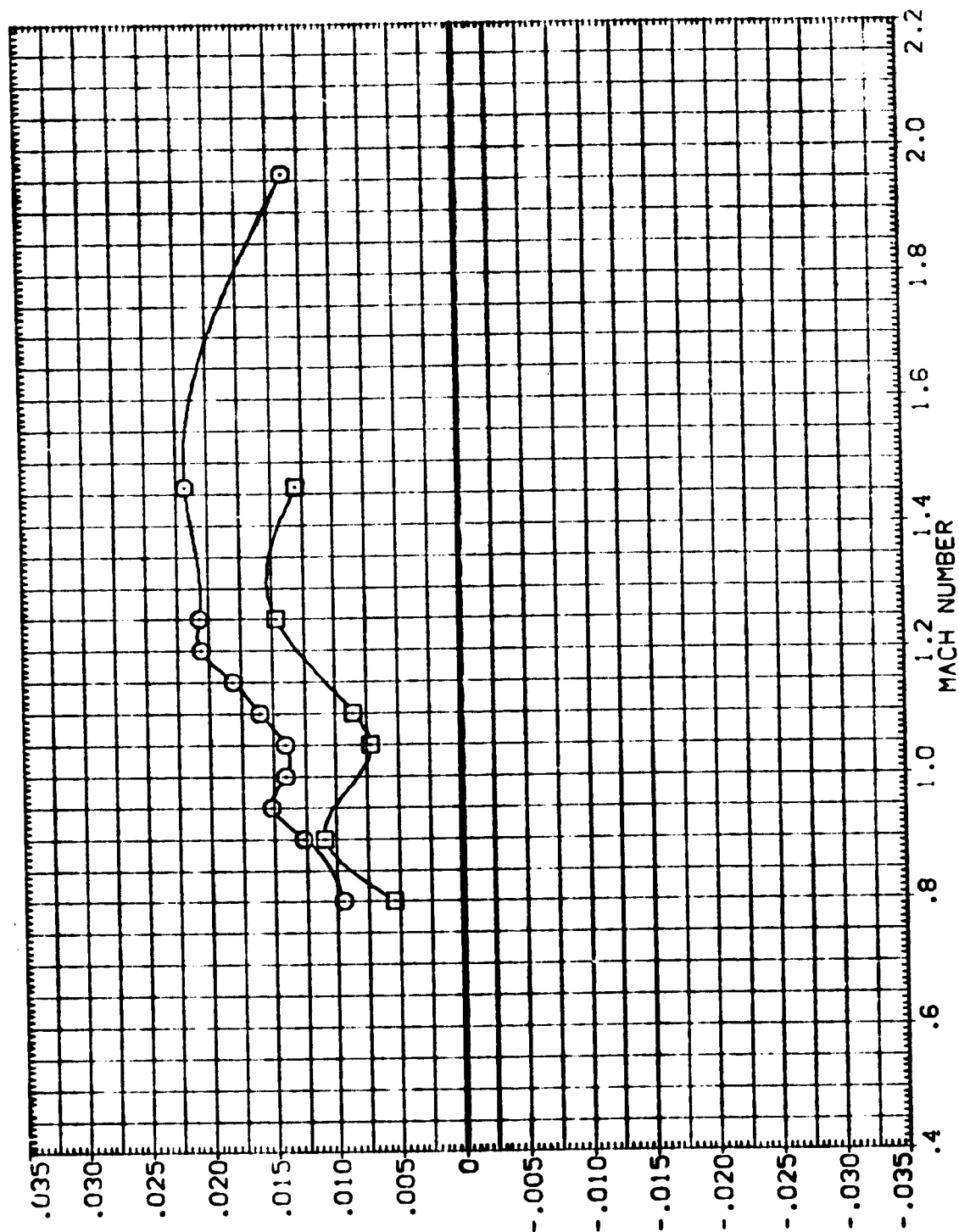
FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(E) ALPHA = 2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBITR FLIPOR
.000 .000 10.000
.000 -3.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K219) ☐ MSFC TVT610 (1A-71) 77-8.74-TS Z10
(N1K220) ☐ MSFC TVT610 (1A-71) 77-8.74-TS Z10 (INCIDENCE)



WING ROOT BENDING MOMENT COEFFICIENT, CBW

FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(F) ALPHA = 4.00



DATA SET SYMBOL: 8
CONFIGURATION DESCRIPTION: MSFC TWT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)
MSFC TWT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)
BETA: .000
ORBITAL: .000
FLIPOR: 10.000
SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

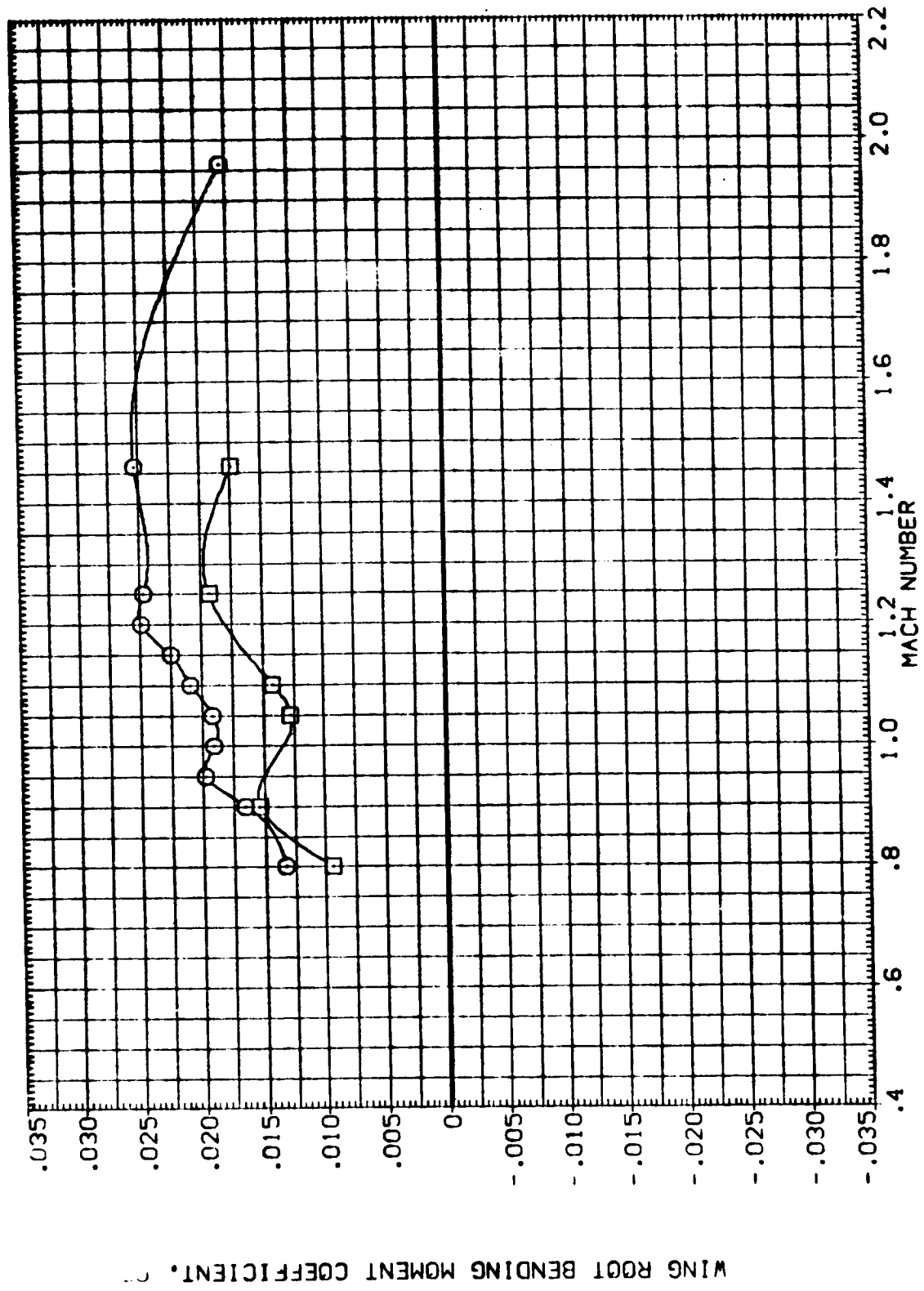


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(G)ALPHA = 5.70

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORB INC -3.000
FLIPOR 10.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK219) MSFC TW610 (1A-71) 77-8.74-TS Z10
(NIK220) MSFC TW610 (1A-71) 77-8.74-TS Z10 (INCIDENCE)

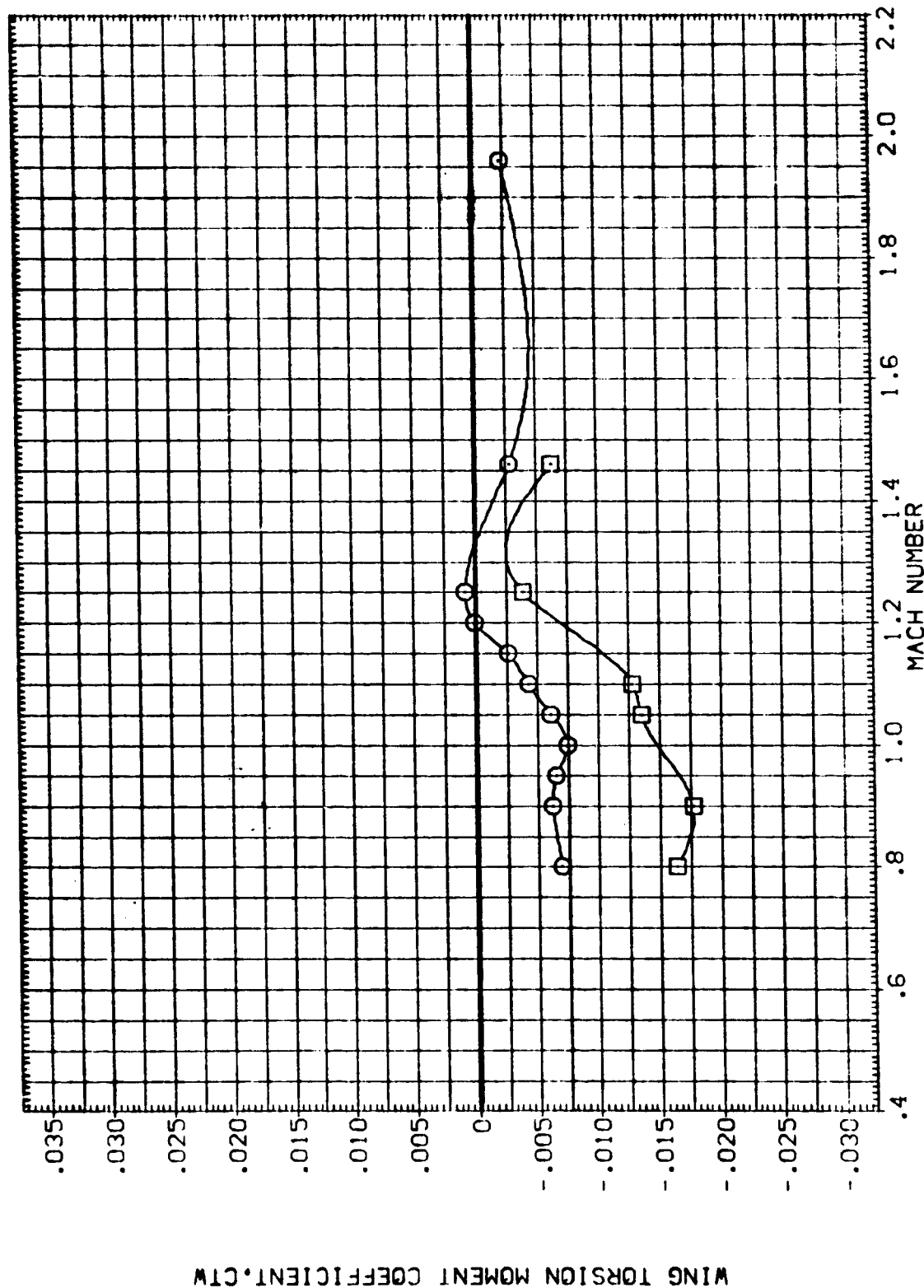


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(A) ALPHA = -6.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPOR
.000 .000 10.000
.000 -3.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K219) MSFC TWT610 (1A-71) 77-0.74-TS Z10
(N1K220) MSFC TWT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

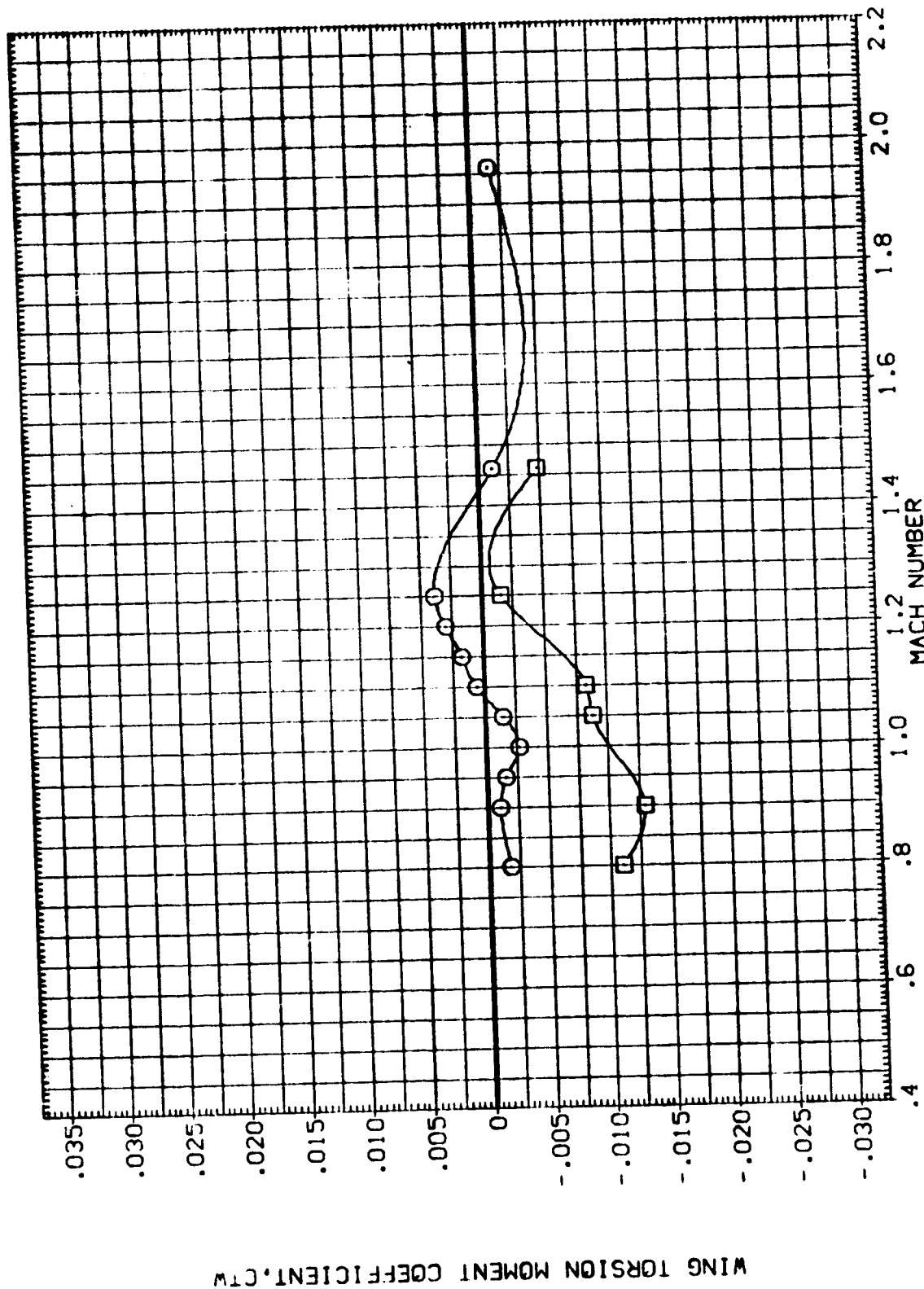


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD
(B) ALPHA = -4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA FLIPOR
.000 10.000
.000 -3.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK219) MSFC TW1610 (1A-71) 77-0.74-TS Z10
(NIK220) MSFC TW1610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

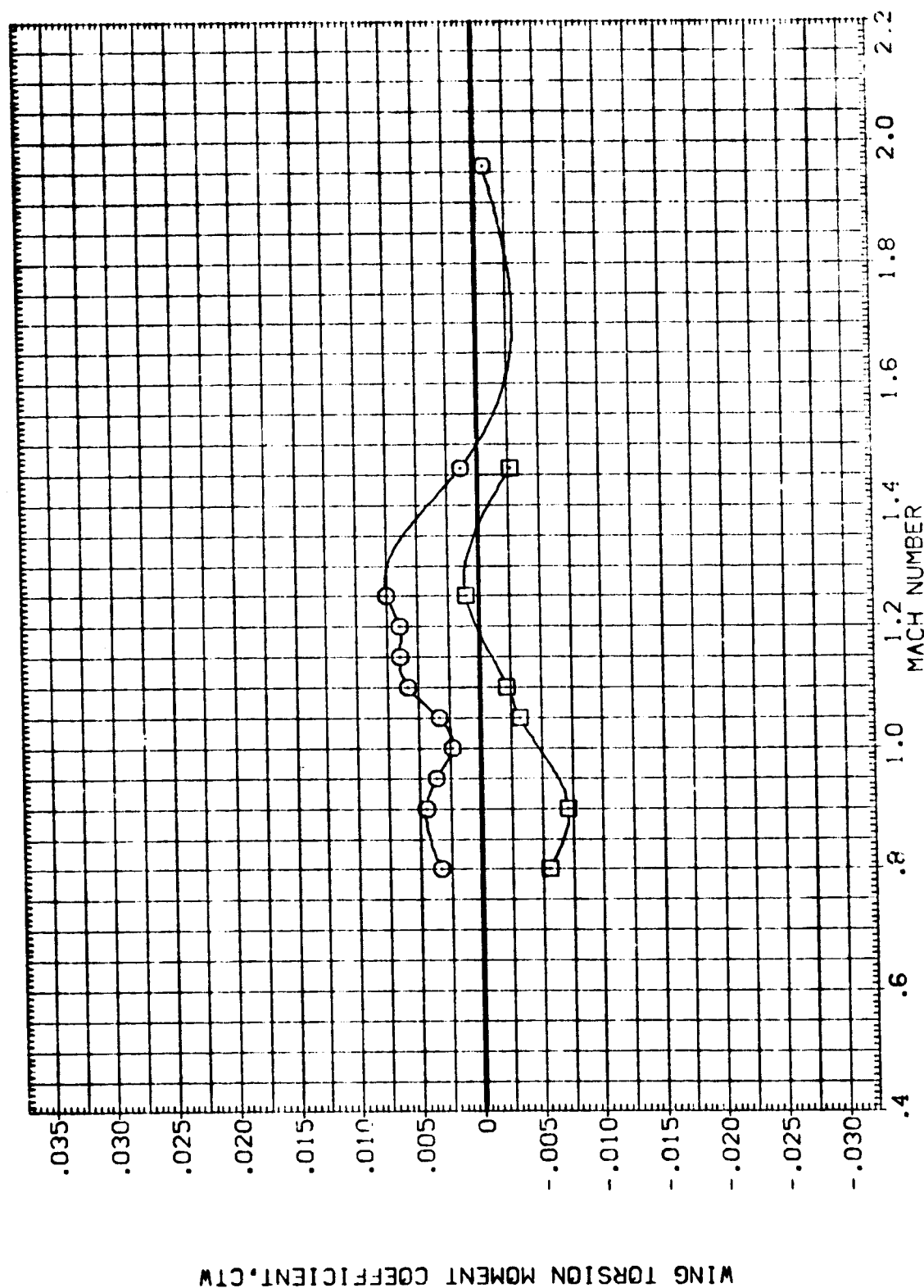


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(C) ALPHA = -2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORB INC .000
FLIPOR 10.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK219) MSFC TW1610 (1A-71) 77-0.74-TS Z10
(NIK220) MSFC TW1610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

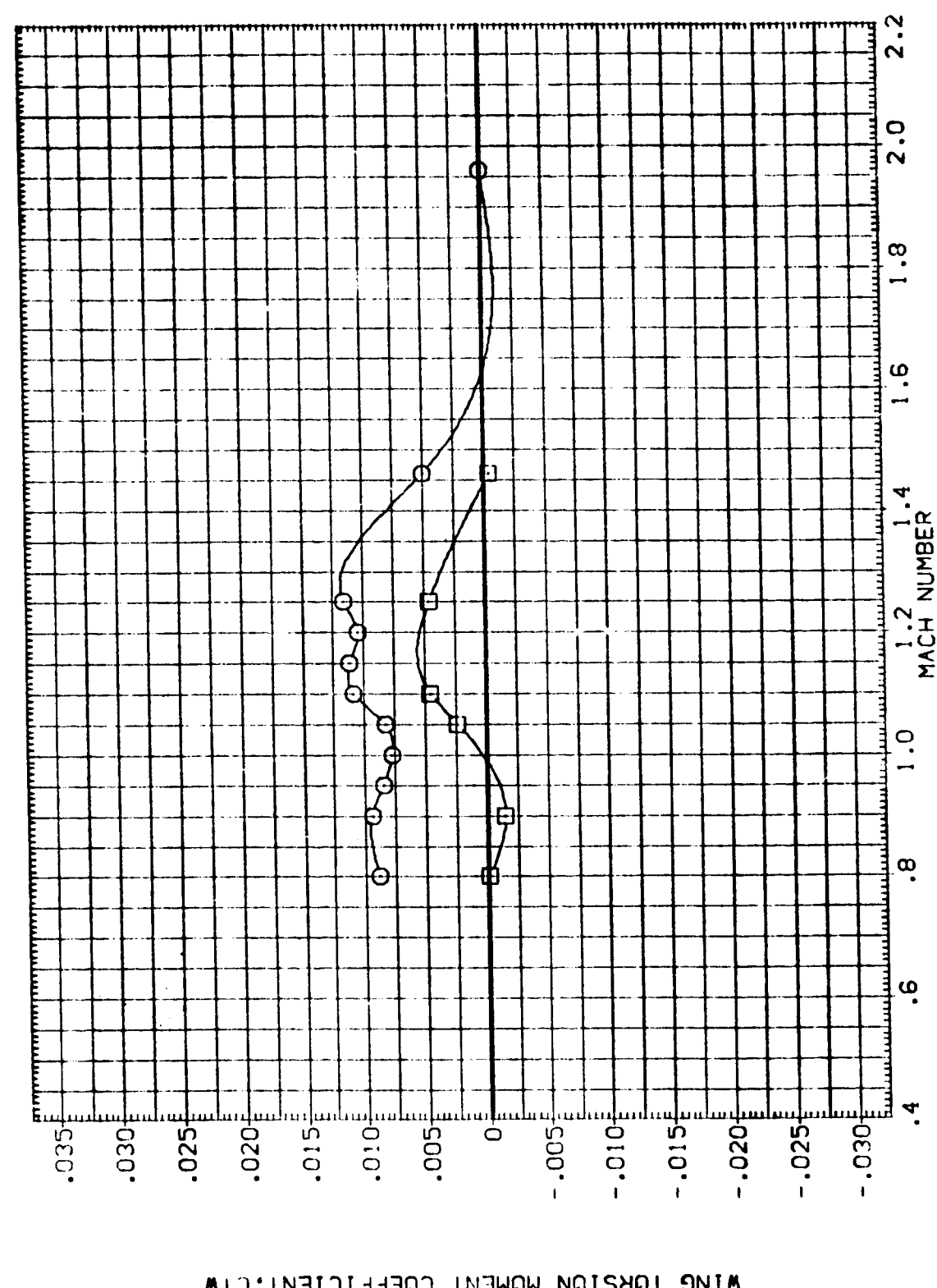


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD
(D)ALPHA = .00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORB INC -3.000
FLIPDR 10.000

DATA SET SYMBOL 9
MSFC TW610 (1A-71) 77-0.74-TS Z10
MSFC TW610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

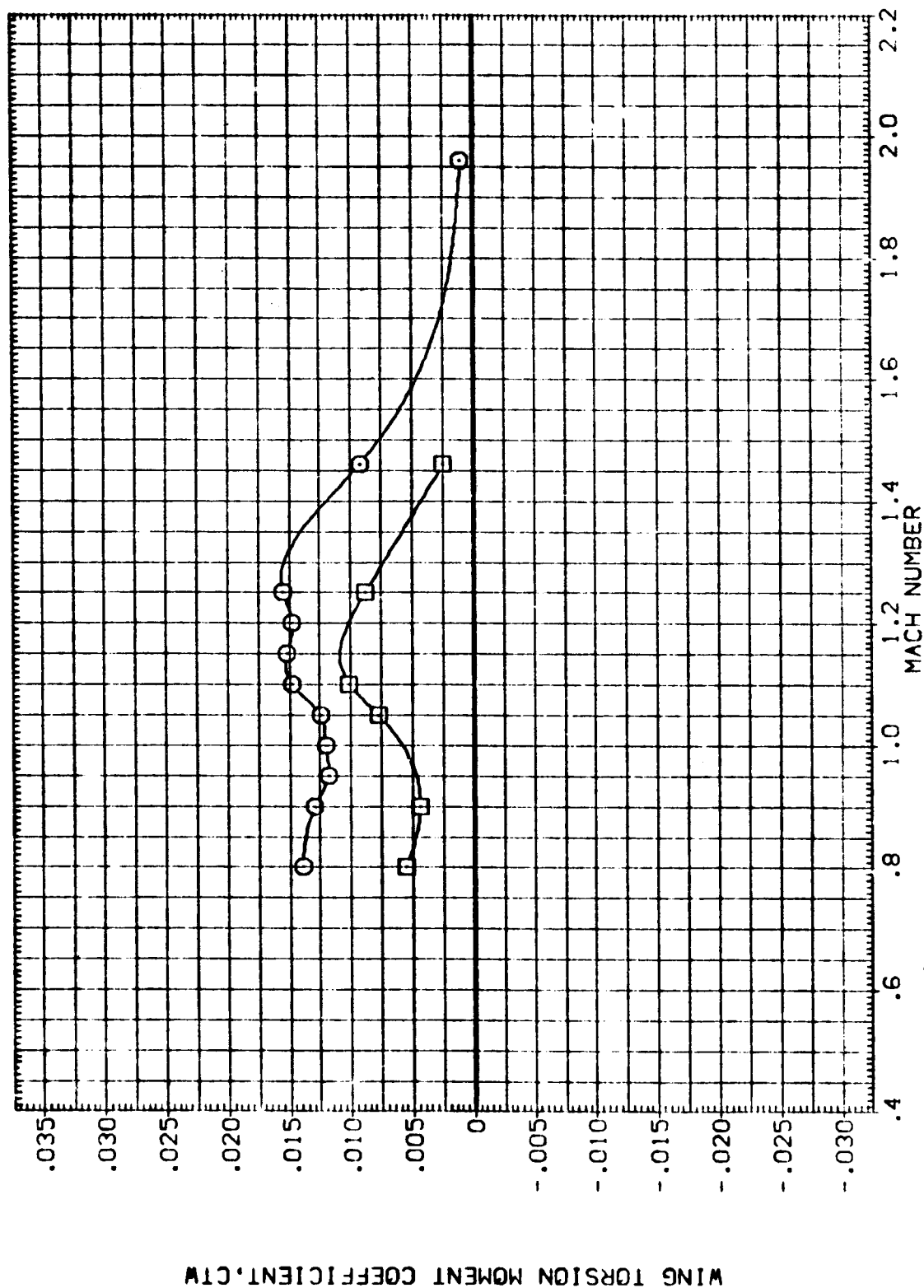


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(E) ALPHA = 2.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPDR
.000 .000 10.000
.000 -3.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1M219) MSFC TWT610 (1A-71) 77-0.74-TS Z10
(N1M220) MSFC TWT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

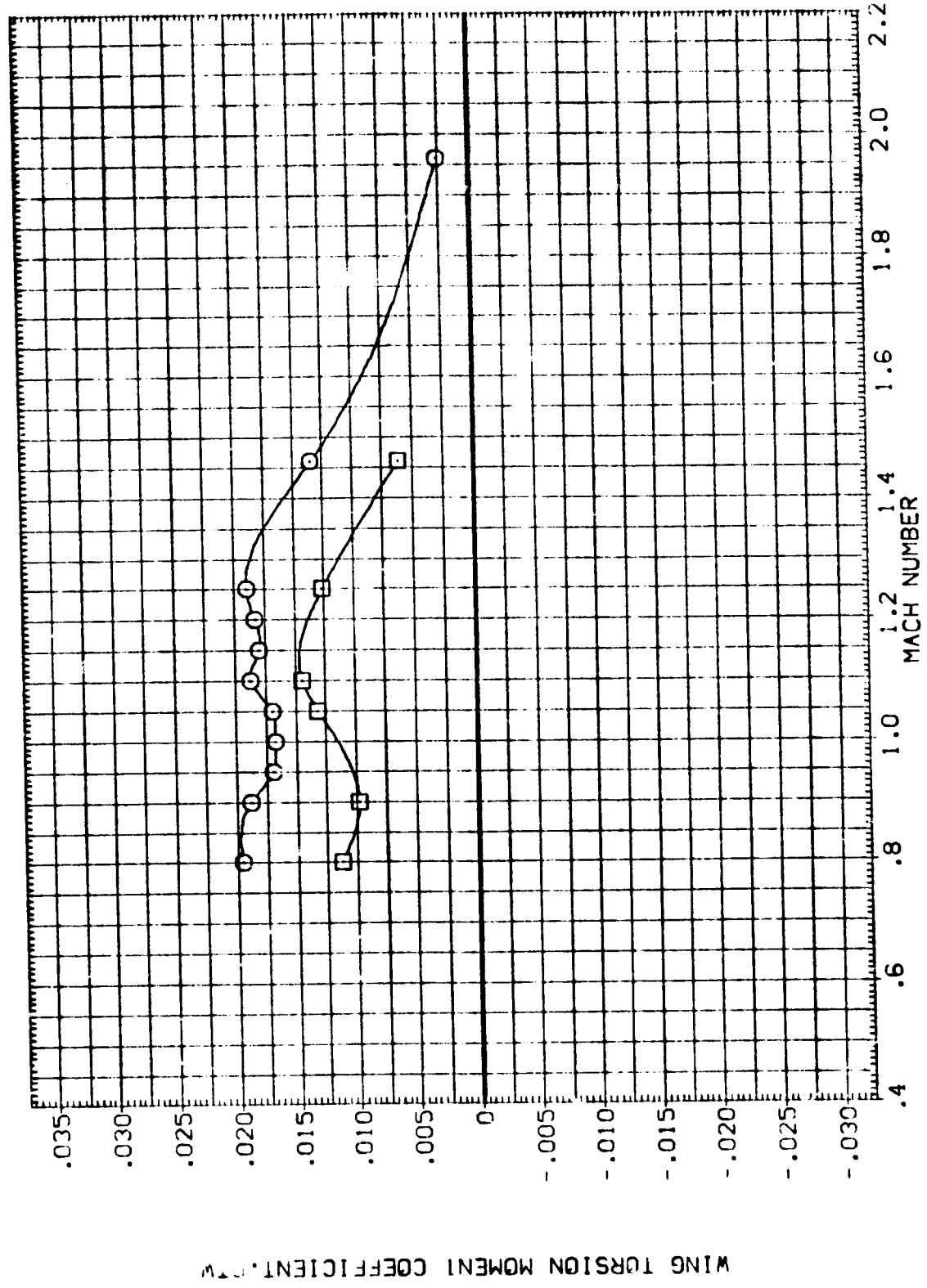


FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(F)ALPHA = 4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
MORINC .000
FLIPOR 10.000
-3.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK219) MSFC TW610 (1A-71) 77-0.74-TS Z10
(NIK220) MSFC TW610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

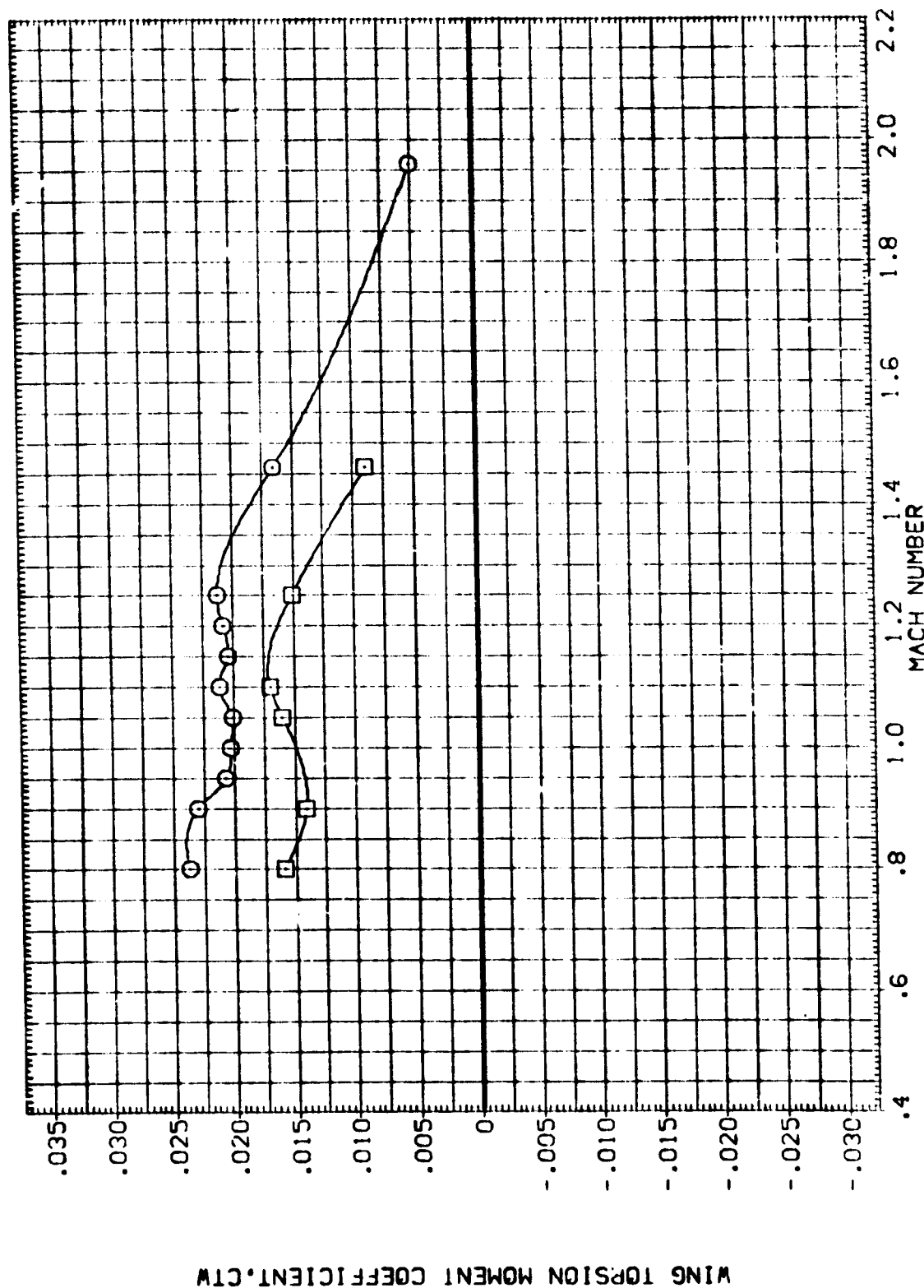


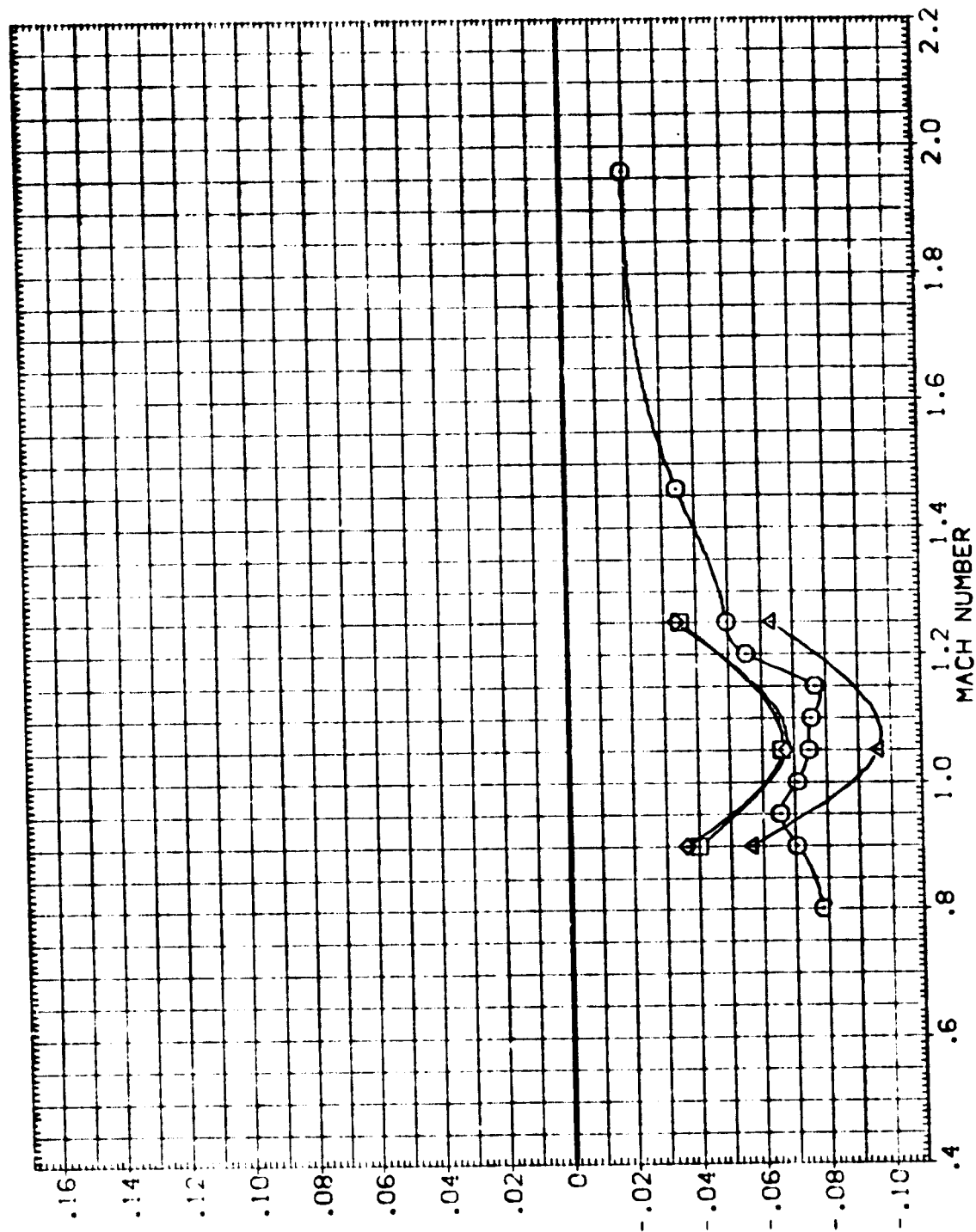
FIGURE 9 EFFECT OF ORBITER INCIDENCE ON WING LOAD

(G)ALPHA = 5.70

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPDR
.000 .000 10.000
.000 .000 .000
.000 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K219) MSFC 1A'610 (1A-71) 77-0-74-TS Z10 V/FAIRINGSF3
(N1K222) MSFC 1A'610 (1A-71) 77-0-74-TS Z10 V/FAIRINGSF5
(N1K223) MSFC 1A'610 (1A-71) 77-0-74-TS Z10 V/FAIRINGSF5
(N1K224) MSFC 1A'610 (1A-71) 77-0-74-TS Z10 V/FAIRINGSF11



WING NORMAL FORCE COEFFICIENT, C_N

FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(A) ALPHA = -6.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA CRBINC FLIPOR
.000 .000 10.000
.000 .000 .000
.000 .000 .000

CONFIGURATION DESCRIPTION

MSFC TUT610 (1A-71) 77-0.74-TS Z10 WFAIRINGSF3
MSFC TUT610 (1A-71) 77-0.74-TS Z10 WFAIRINGSF5
MSFC TUT610 (1A-71) 77-0.74-TS Z10 WFAIRINGSF11

DATA SET SYMBOL
(N1K219)
(N1K222)
(N1K223)
(N1K224)

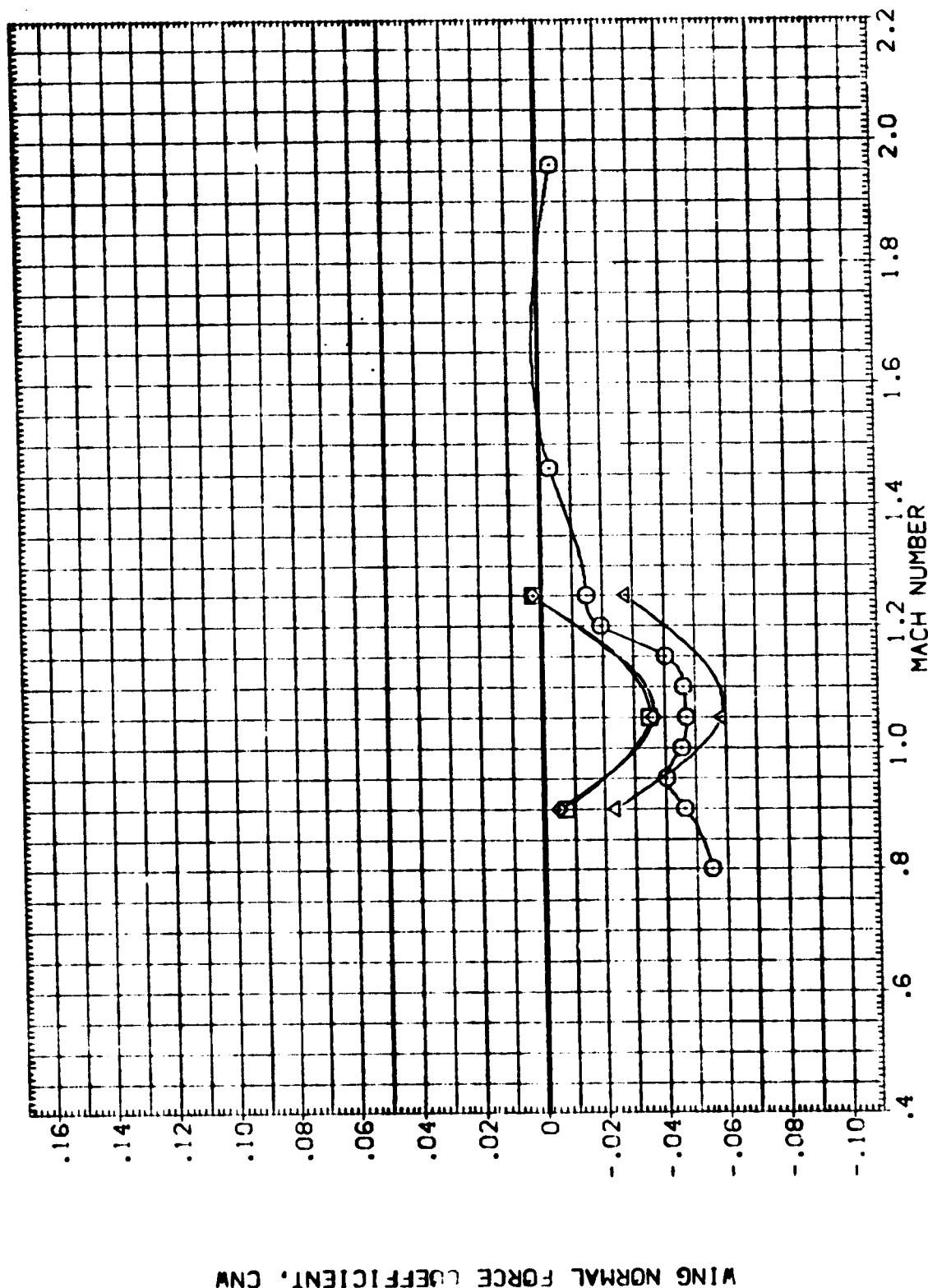


FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(B) ALPHA = -4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPOR 10.000

DATA SET SYMBOL CONFIGURATIC-1 DESCRIPTION
(N1K219) MSFC TW1610 (1A-71) 77-0.74-TS Z10 VFAIRINGSF3
(N1K222) MSFC TW1610 (1A-71) 77-0.74-TS Z10 VFAIRINGSF5
(N1K223) MSFC TW1610 (1A-71) 77-0.74-TS Z10 VFAIRINGSF11
(N1K224) MSFC TW1610 (1A-71) 77-0.74-TS Z10 VFAIRINGSF11

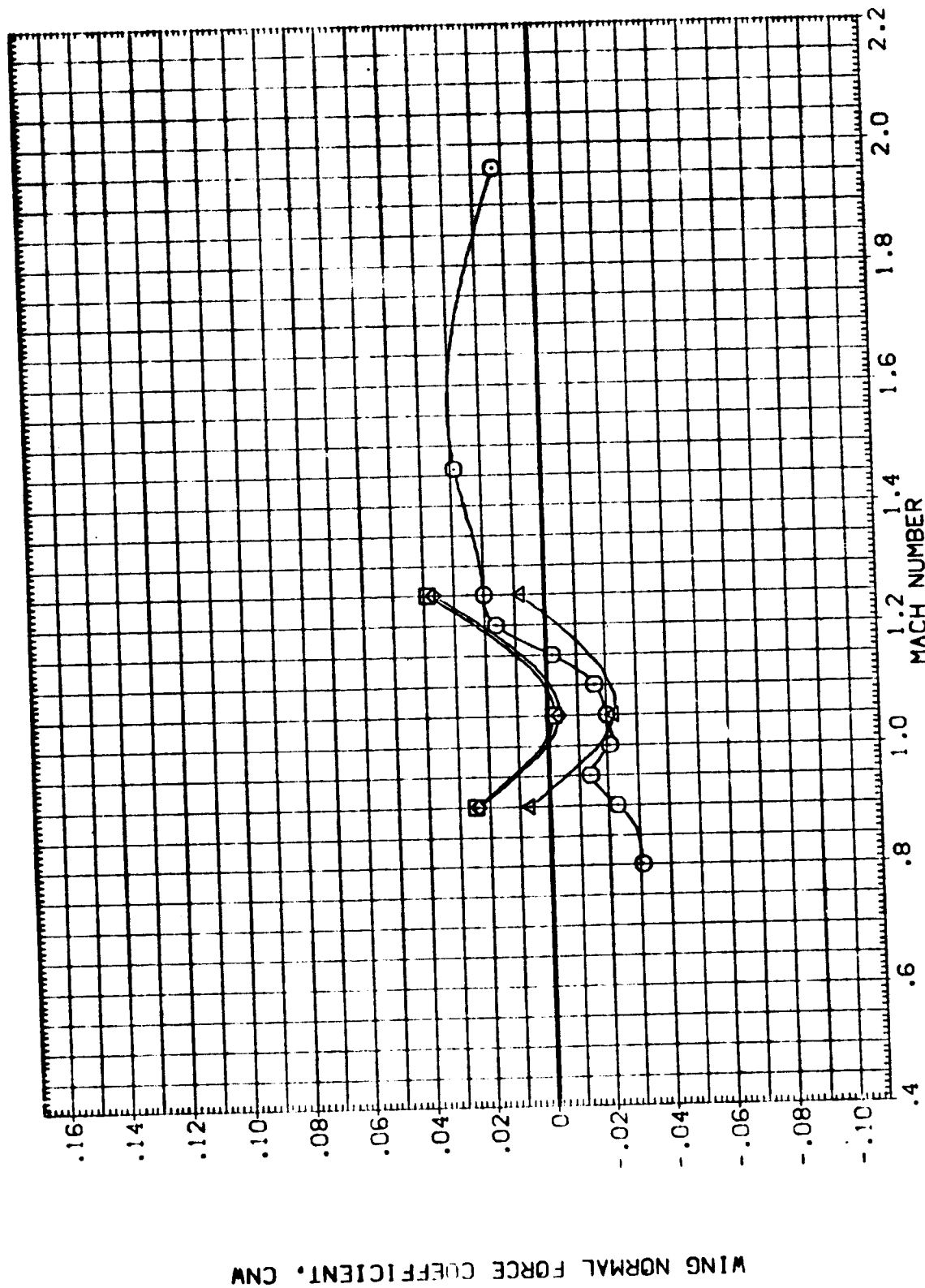


FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(C) ALPHA = -2.00

DATA SET SYMBOL: (NIK219) (NIK222) (NIK223) (NIK224)
 CONFIGURATION: MSFC TVT610 (1A-71) 77-0.74-TS Z10
 MSFC TVT610 (1A-71) 77-0.74-TS Z10
 MSFC TVT610 (1A-71) 77-0.74-TS Z10
 MSFC TVT610 (1A-71) 77-0.74-TS Z10
 ON DESCRIPTION: (1A-71) 77-0.74-TS Z10
 (1A-71) 77-0.74-TS Z10
 (1A-71) 77-0.74-TS Z10
 (1A-71) 77-0.74-TS Z10
 BETA: .000 .000 .000 .000
 ORBINC: .000 .000 .000 .000
 FLIPDR: 10.000 .000 .000 .000

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

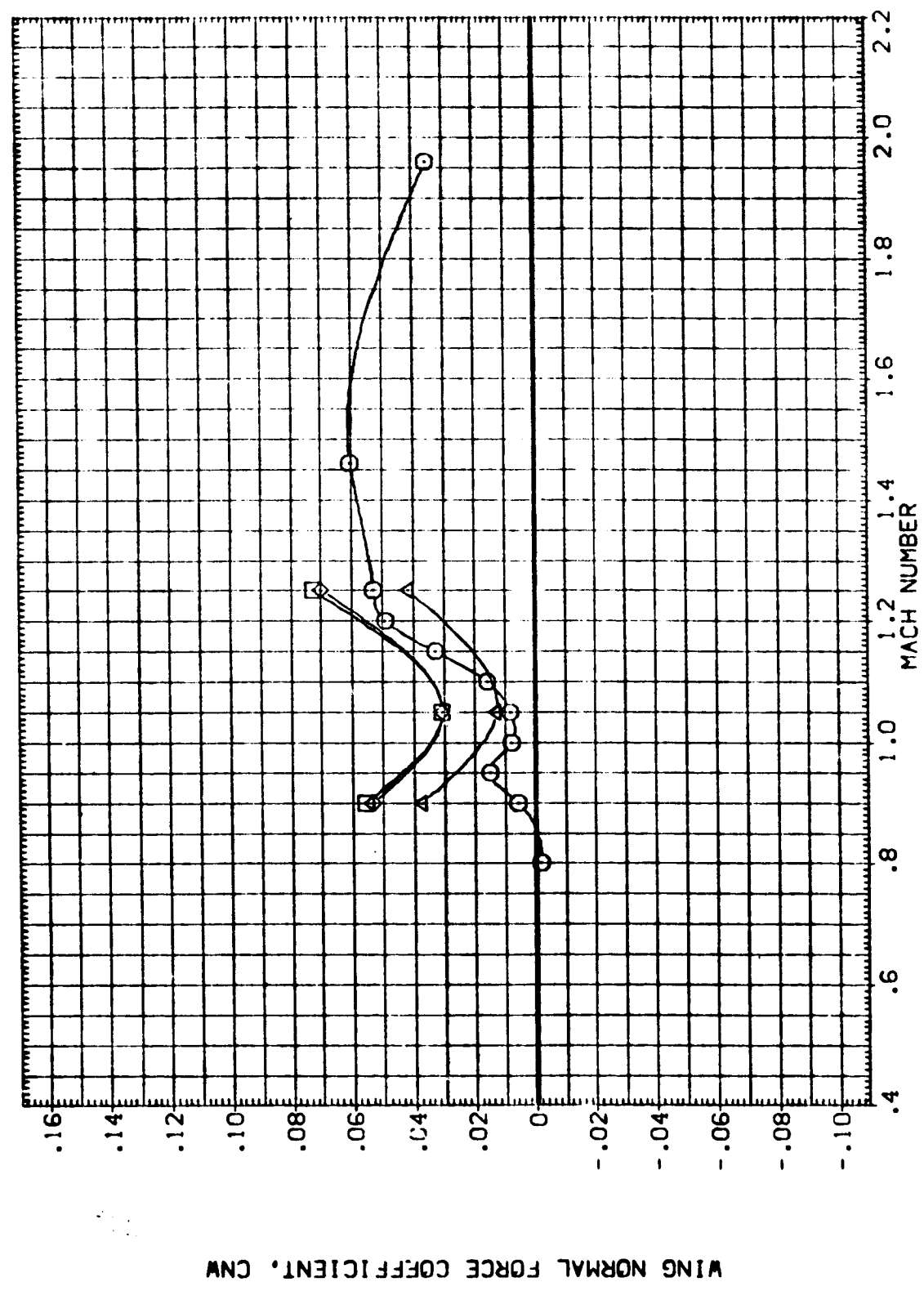


FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(D) ALPHA = .00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORB ING .000
FLIPDR 10.000

CONFIGURATION DESCRIPTION
MSFC TW'610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF3
MSFC TW'610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF5
MSFC TW'610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF11

DATA SET SYMBOL
(N1K219)
(N1K222)
(N1K223)
(N1K224)

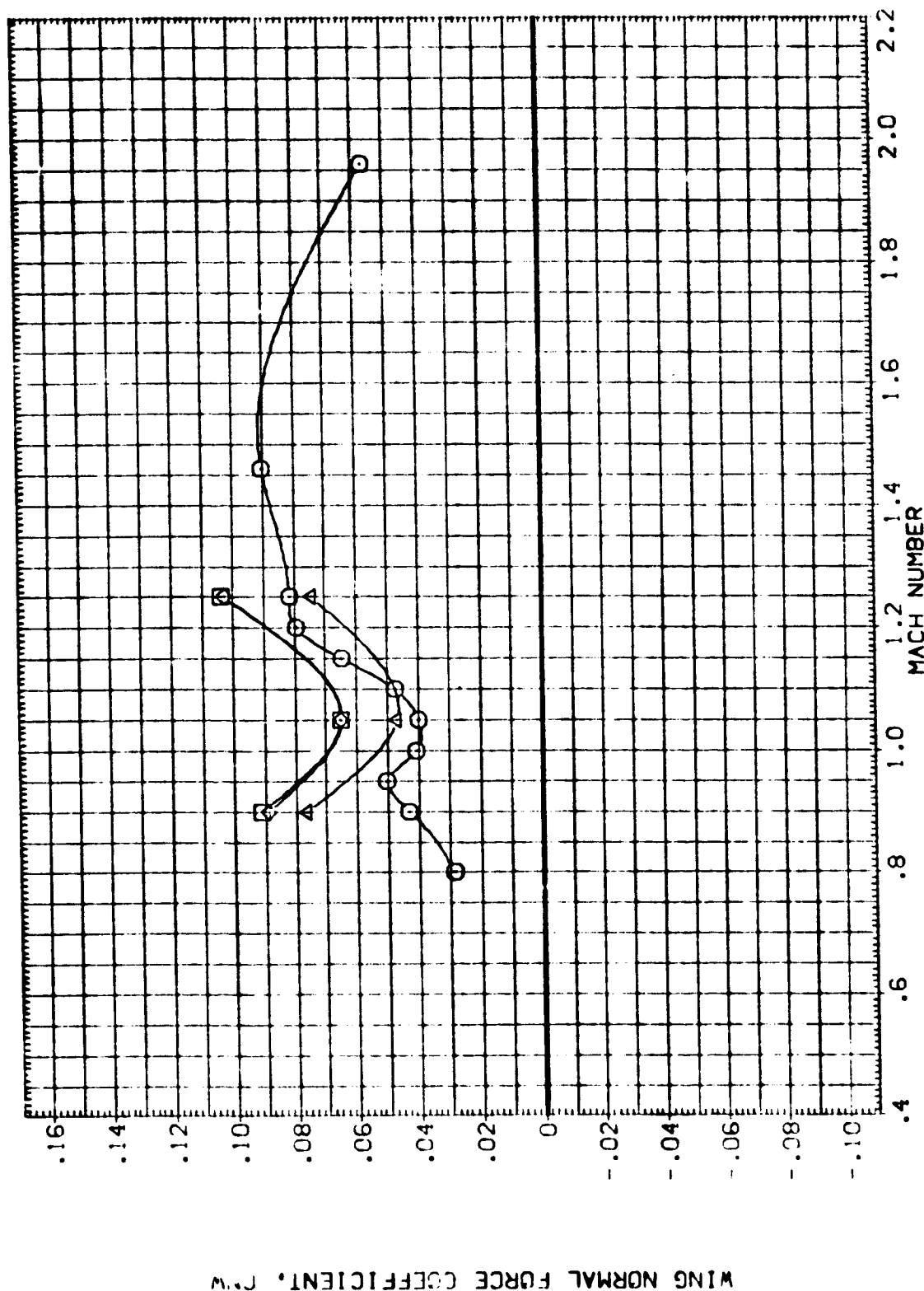


FIGURE 10 EFFECT OF FAIRING ON WING LOAD
(E)ALPHA = 2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPOR
.000 .000 10.000
.000 .000 .000
.000 .000 .000

CONFIGURATION DESCRIPTION
MSFC TW610 (1A-71) 77-0.74-TS Z10 WFAIRINGSF3
MSFC TW610 (1A-71) 77-0.74-TS Z10 WFAIRINGSF5
MSFC TW610 (1A-71) 77-0.74-TS Z10 WFAIRINGSF11

DATA SET SYMBOL
C1X
(N1K219)
(N1K222)
(N1K223)
(N1K224)

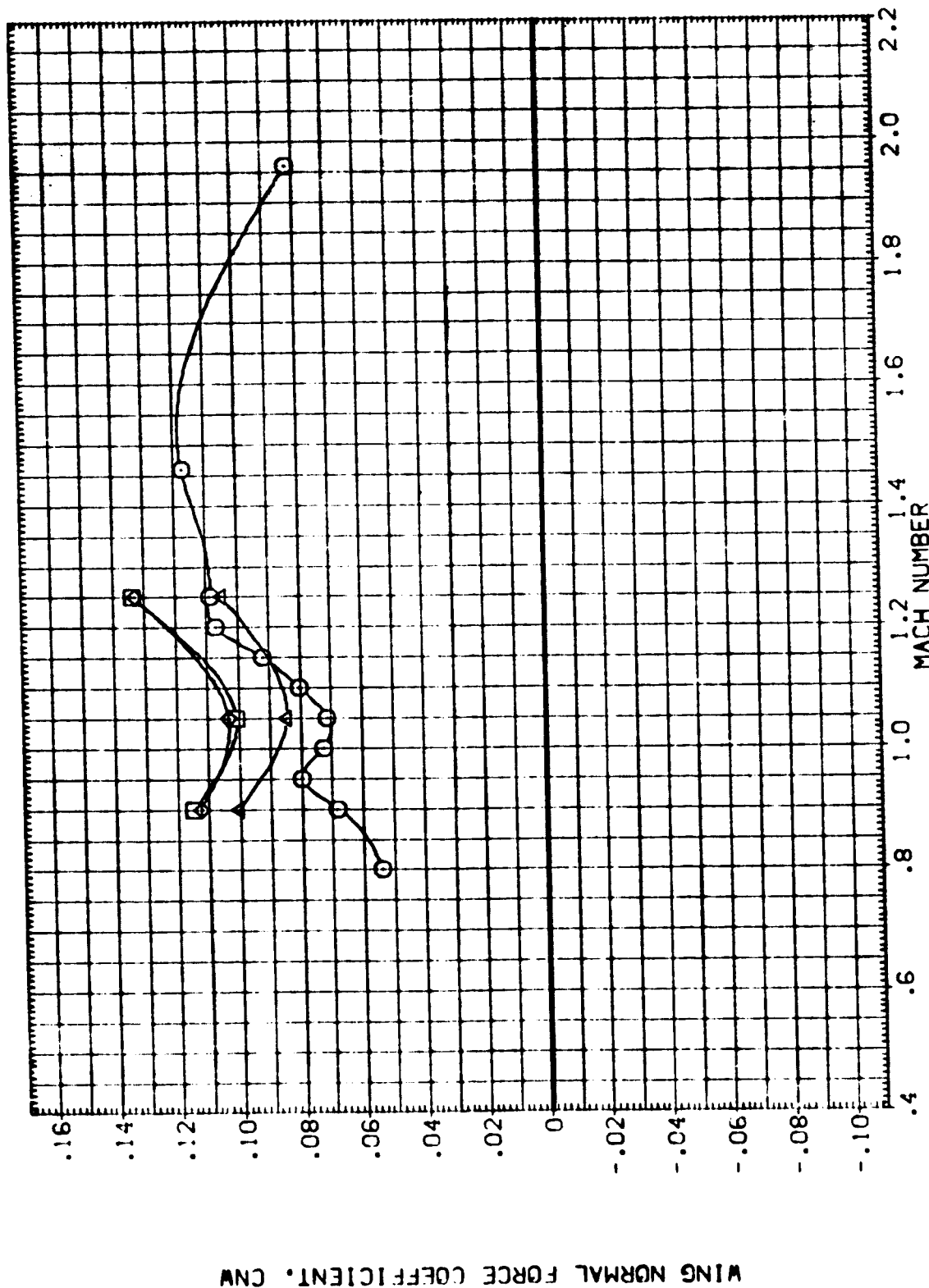


FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(F) ALPHA = 4.00



SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

BETA .000
ORBIT .000
FLIPOR 10.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K219) MSCC TVT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF3
(N1K222) MSCC TVT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF5
(N1K223) MSCC TVT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF11
(N1K224) MSCC TVT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF11

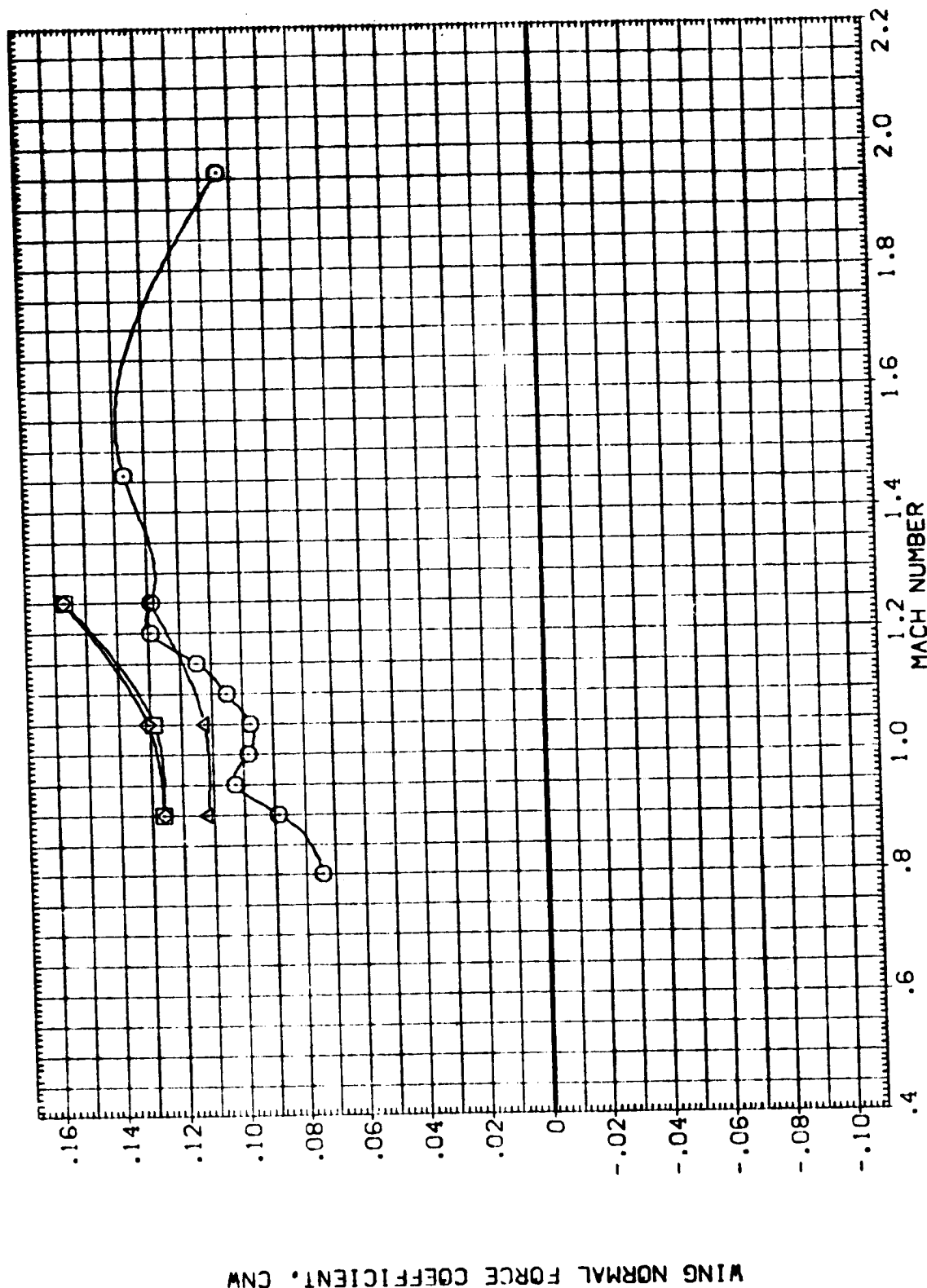


FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(G)ALPHA = 5.70

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPDR 10.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K219) MSFC TVT610 (1A-71) 77-0.74-TS Z10 WFAIRINGSF3
(N1K222) MSFC TVT610 (1A-71) 77-0.74-TS Z10 WFAIRINGSF3
(N1K223) MSFC TVT610 (1A-71) 77-0.74-TS Z10 WFAIRINGSF3
(N1K224) MSFC TVT610 (1A-71) 77-0.74-TS Z10 WFAIRINGSF11

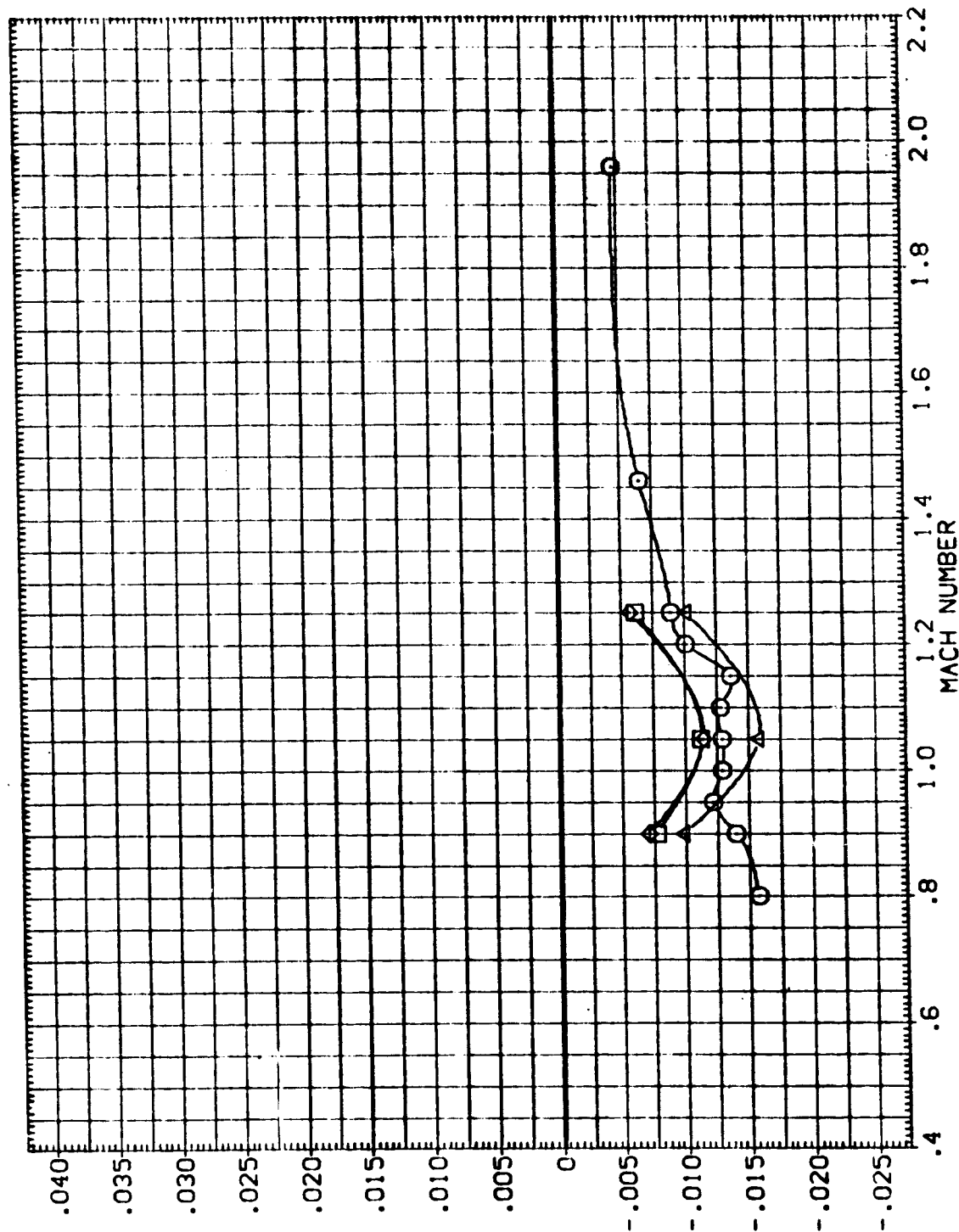


FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(A) ALPHA = -6.00

0

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPDR 10.000
.000
.000
.000
.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K219) MSFC TVT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF3
(N1K222) MSFC TVT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF5
(N1K223) MSFC TVT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF5
(N1K224) MSFC TVT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF11

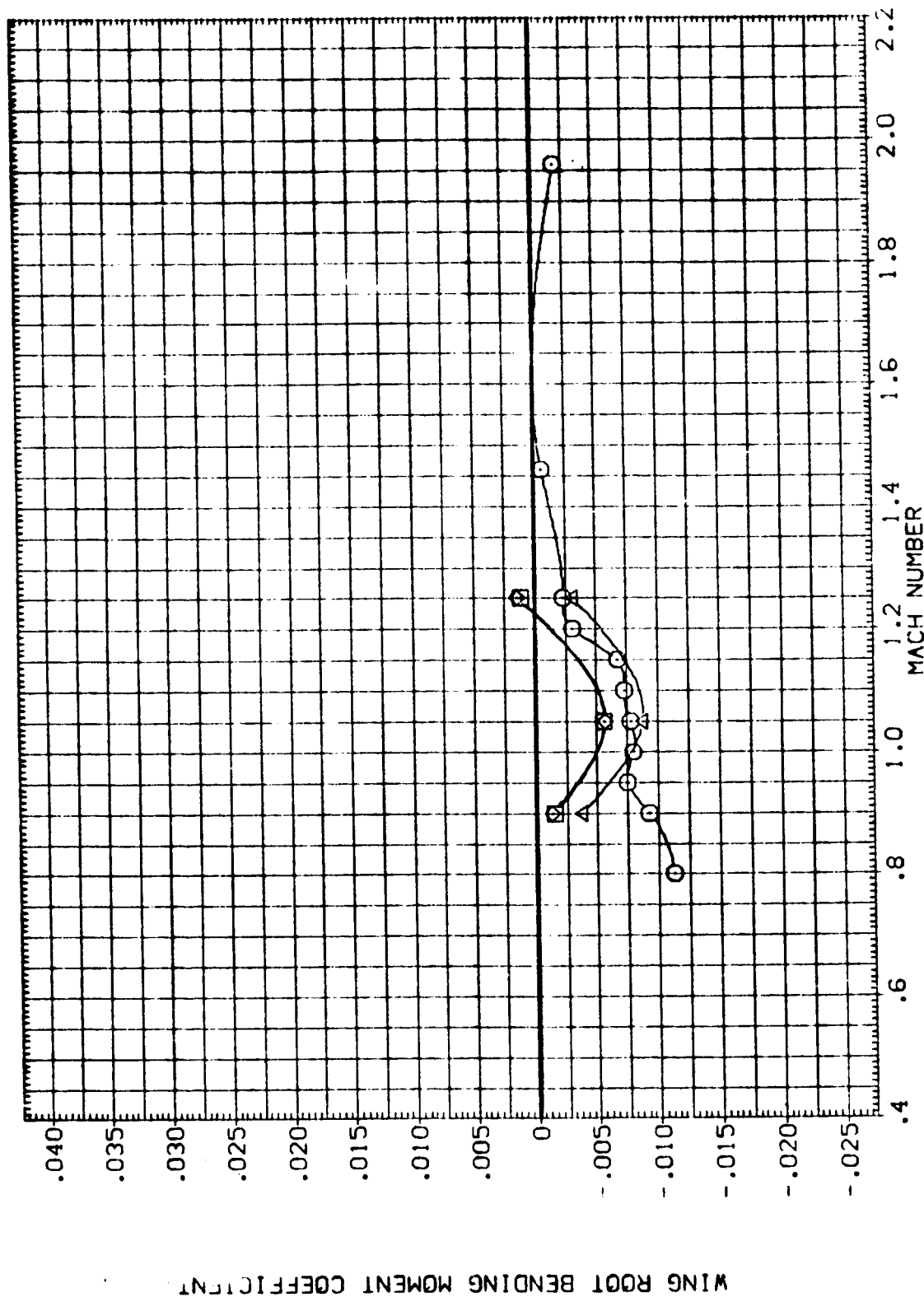


FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(B) ALPHA = -4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

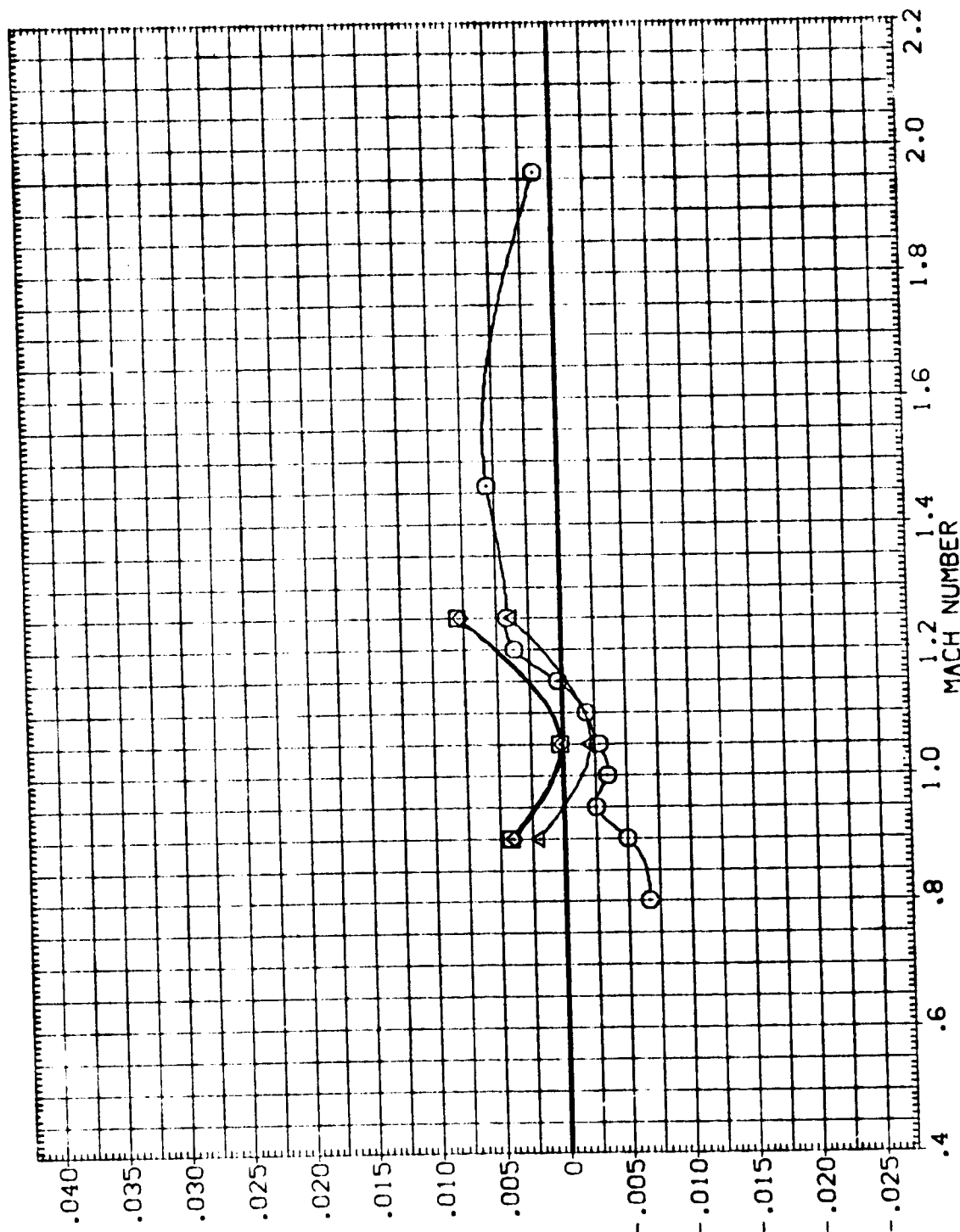
BETA .000
ORBINC .000
FLIPDR 10.000

W/FAIRINGSF3
W/FAIRINGSF5
W/FAIRINGSF11

CONFIGURATION DESCRIPTION

MSFC TW1610 (1A-71) 77-0.74-TS Z10
MSFC TW1610 (1A-71) 77-0.74-TS Z10
MSFC TW1610 (1A-71) 77-0.74-TS Z10
MSFC TW1610 (1A-71) 77-0.74-TS Z10

DATA SET SYMBOL
(N1K2191)
(N1K2221)
(N1K2231)
(N1K2241)



WING ROOT BENDING MOMENT COEFFICIENT, CBW

FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(C)ALPHA = -2.00



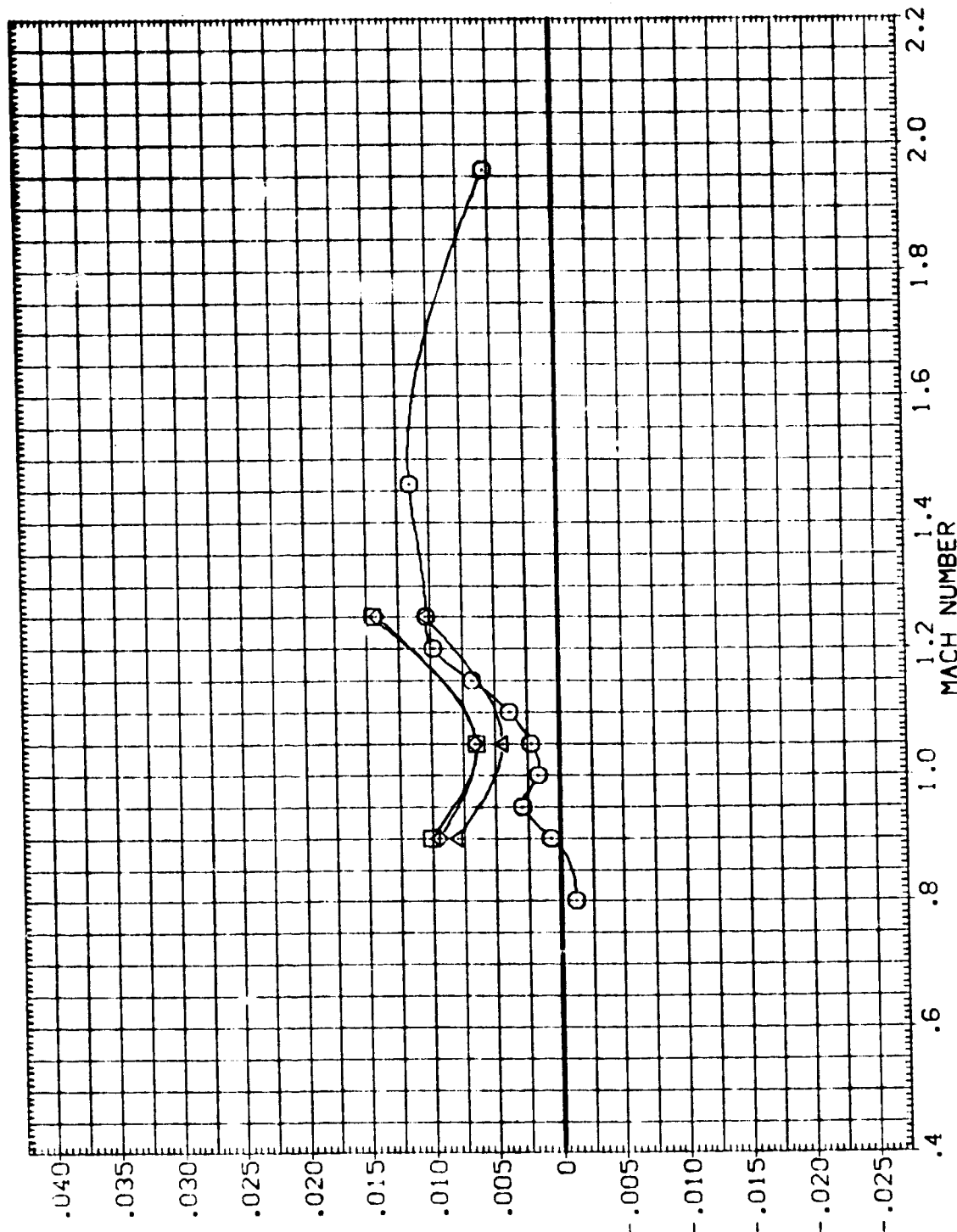
E

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORB:INC .000
FLIPDR 10.000

MSFC 'WT610 (1A-71) 77-0.74-TS Z10 V/FAIR:NGSF3
MSFC 'WT610 (1A-71) 77-0.74-TS Z10 V/FAIR:NGSF3
MSFC 'WT610 (1A-71) 77-0.74-TS Z10 V/FAIR:NGSF3
MSFC 'WT610 (1A-71) 77-0.74-TS Z10 V/FAIR:NGSF3

DATA SET SYMBOL
(NIK219)
(NIK222)
(NIK223)
(NIK224)



WING ROOT BENDING MOMENT COEFFICIENT

FIGURE 10 EFFECT OF FAIRING ON WING LOAD

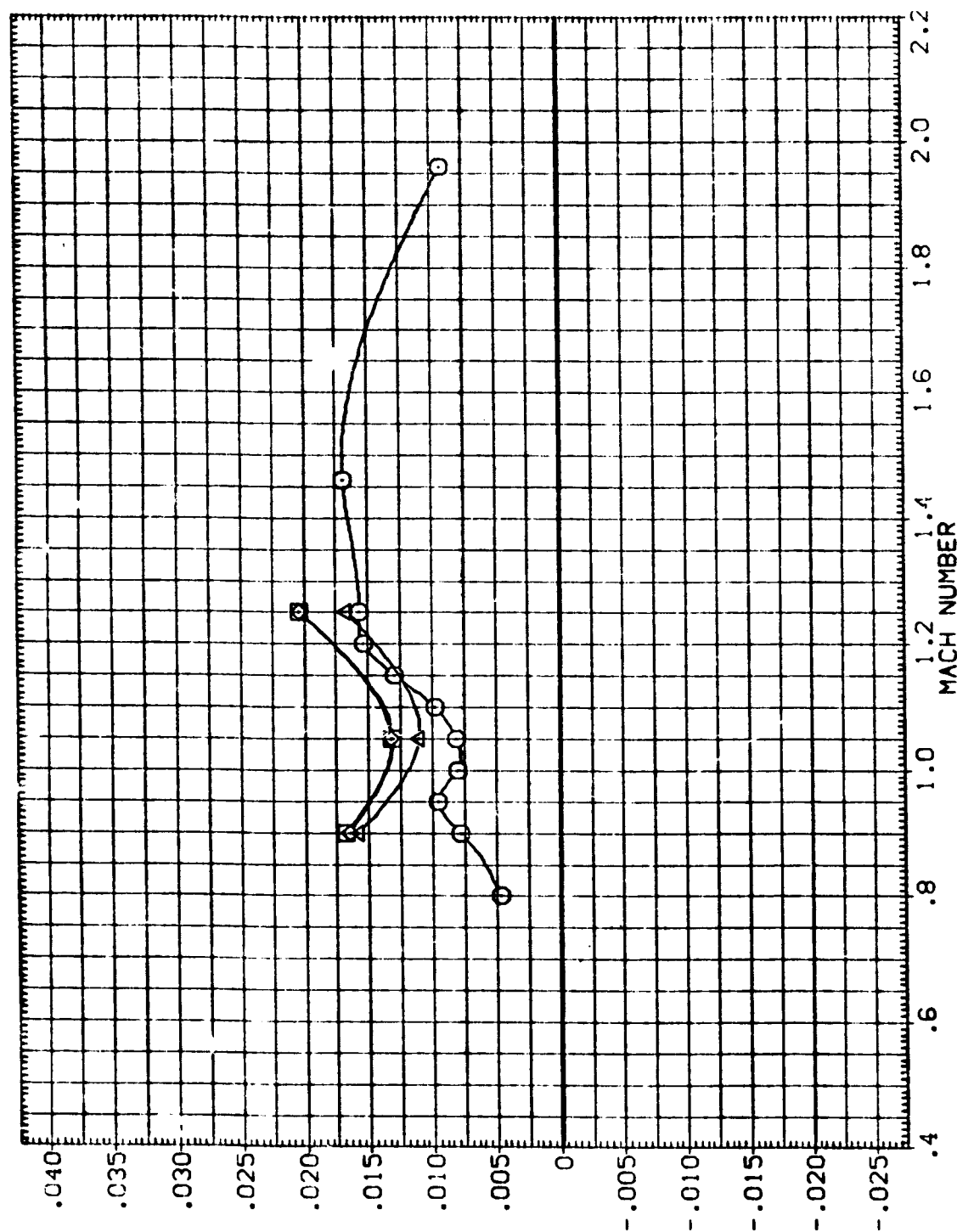
(D) ALPHA = .00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPDR 10.000
.000
.000
.000

CONFIGURATION DESCRIPTION
MSFC TW610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF3
MSFC TW610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF5
MSFC TW610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF11

DATA SET SYMBOL
(NIR219)
(NIR222)
(NIR223)
(NIR224)



WING ROOT BENDING MOMENT COEFFICIENT, CBW

FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(E) ALPHA = 2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
CRBINC .000
FLIPOR 10.000

MSFC TVT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF3
MSFC TVT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF5
MSFC TVT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF11

DATA SET SYMBOL
(N1K219)
(N1K222)
(N1K223)
(N1K224)

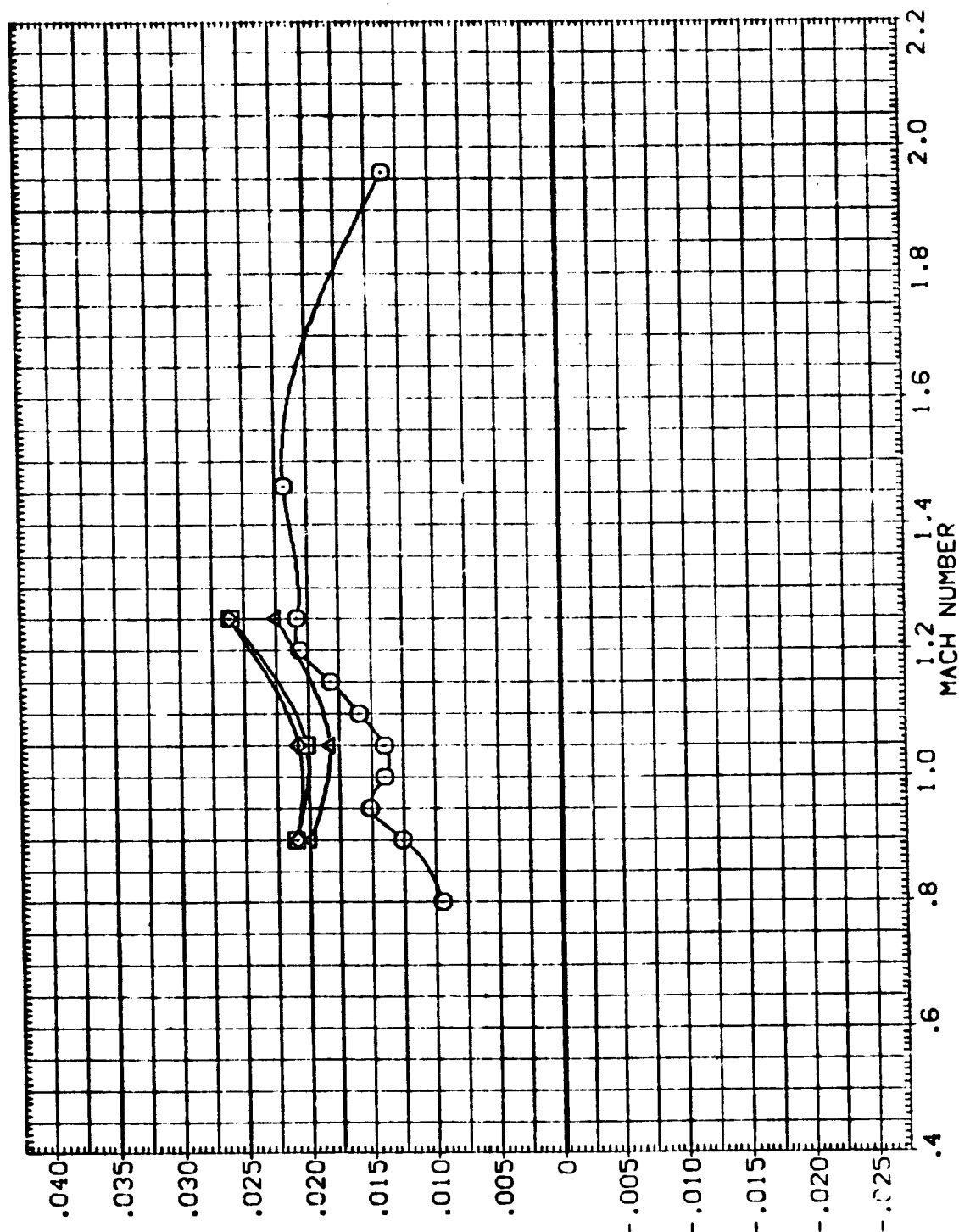


FIGURE 10 EFFECT OF FAIRING ON WING LOAD

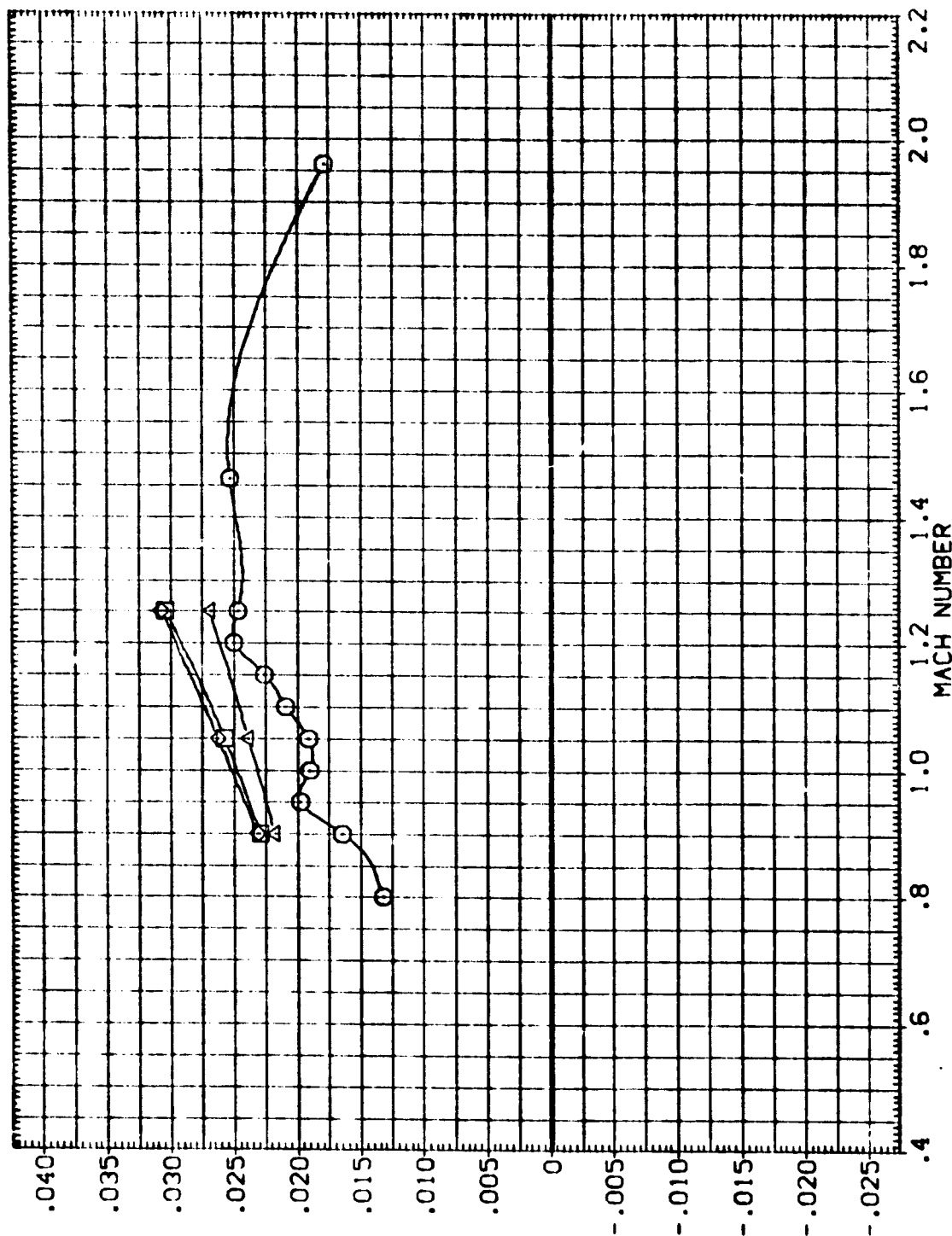
(F)ALPHA = 4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORB INC .000
FLIPDR 10.000

MSFC TVT610 (1A-71) 77-0.74-TS Z10
MSFC TVT610 (1A-71) 77-0.74-TS Z10
MSFC TVT610 (1A-71) 77-0.74-TS Z10
MSFC TVT610 (1A-71) 77-0.74-TS Z10

DATA SET SYMBOL
(N1K219)
(N1K222)
(N1K223)
(N1K224)



WING ROOT BENDING MOMENT COEFFICIENT, CBW

FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(G)ALPHA = 5.70

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPDR 10.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K219) MSFC TVT610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF3
(N1K222) MSFC TVT610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF5
(N1K223) MSFC TVT610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF11
(N1K224) MSFC TVT610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF11

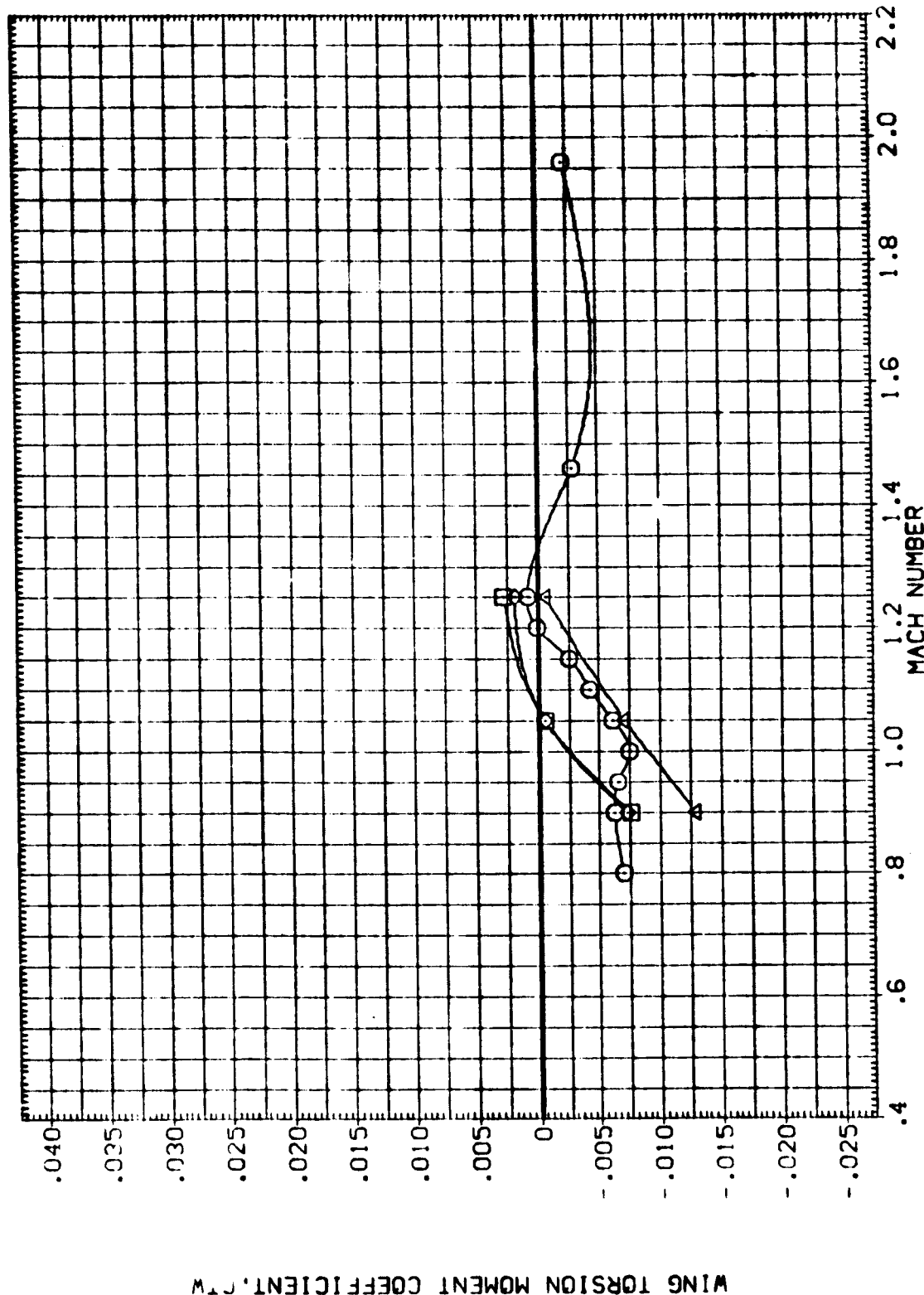


FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(A) ALPHA = -6.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000 .000
ORBIT .000 .000 .000
FLIPDR 10.000 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK219) Q TWT610 (IA-71) 77-0.74-TS Z10 VFAIRINGSF3
(NIK222) X TWT610 (IA-71) 77-0.74-TS Z10 VFAIRINGSF3
(NIK223) X TWT610 (IA-71) 77-0.74-TS Z10 VFAIRINGSF3
(NIK224) X TWT610 (IA-71) 77-0.74-TS Z10 VFAIRINGSF3

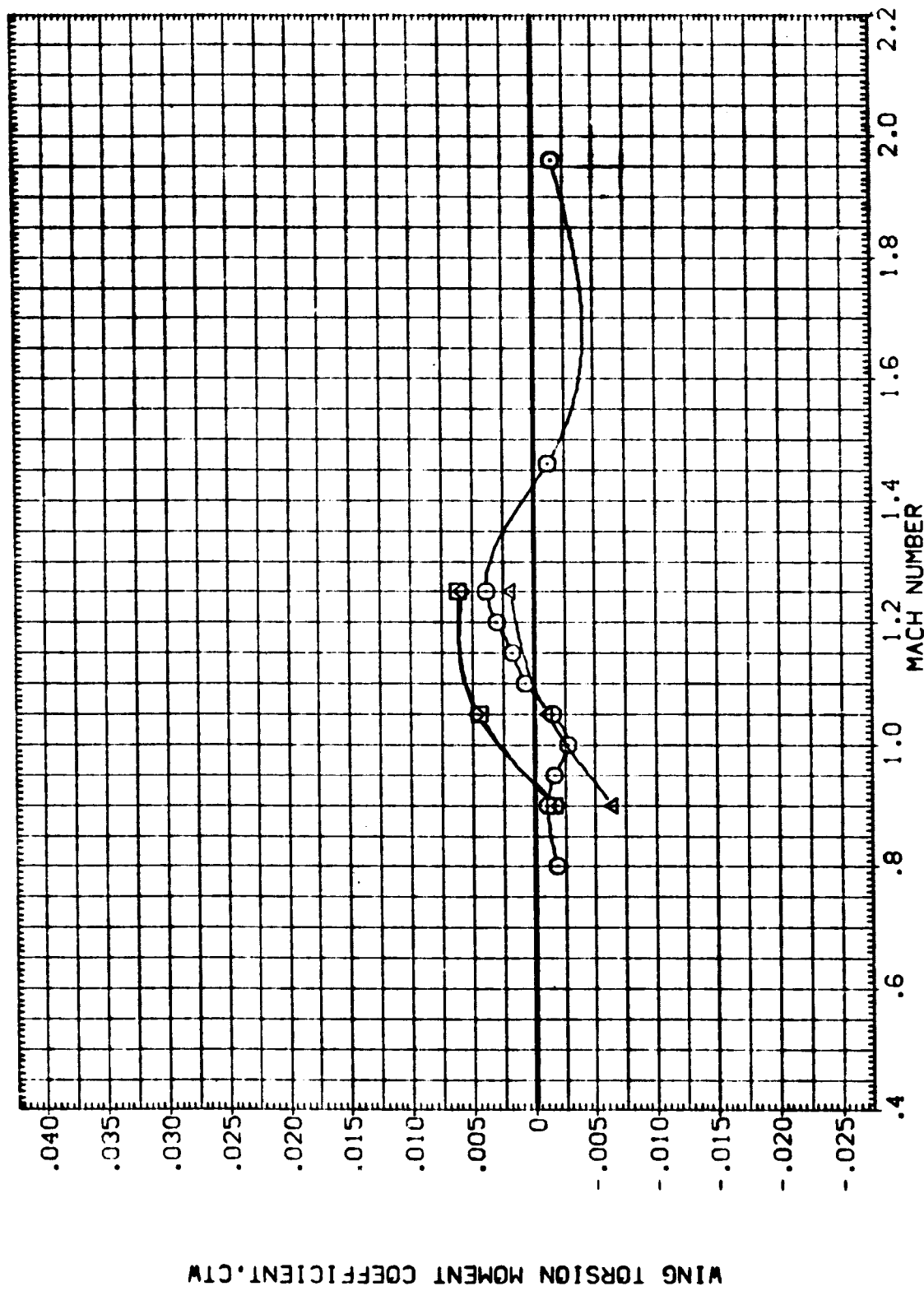


FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(B) ALPHA = -4.00





SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPOR .000

MSFC TVT610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF3
MSFC TVT610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF5
MSFC TVT610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF11

DATA SET SYMBOL
(N1K219)
(N1K222)
(N1K223)
(N1K224)

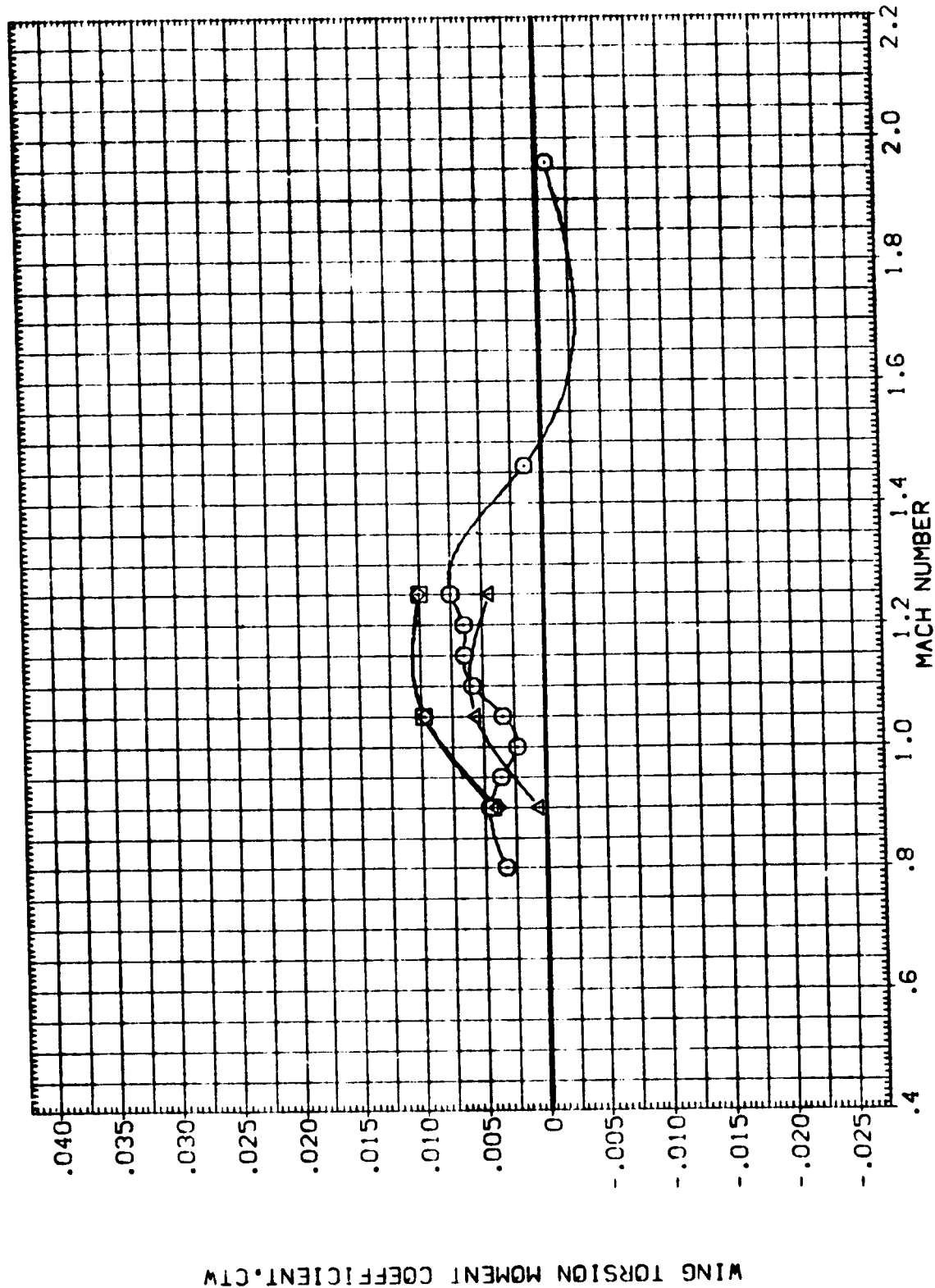


FIGURE 10 EFFECT OF FAIRING ON WING LOAD

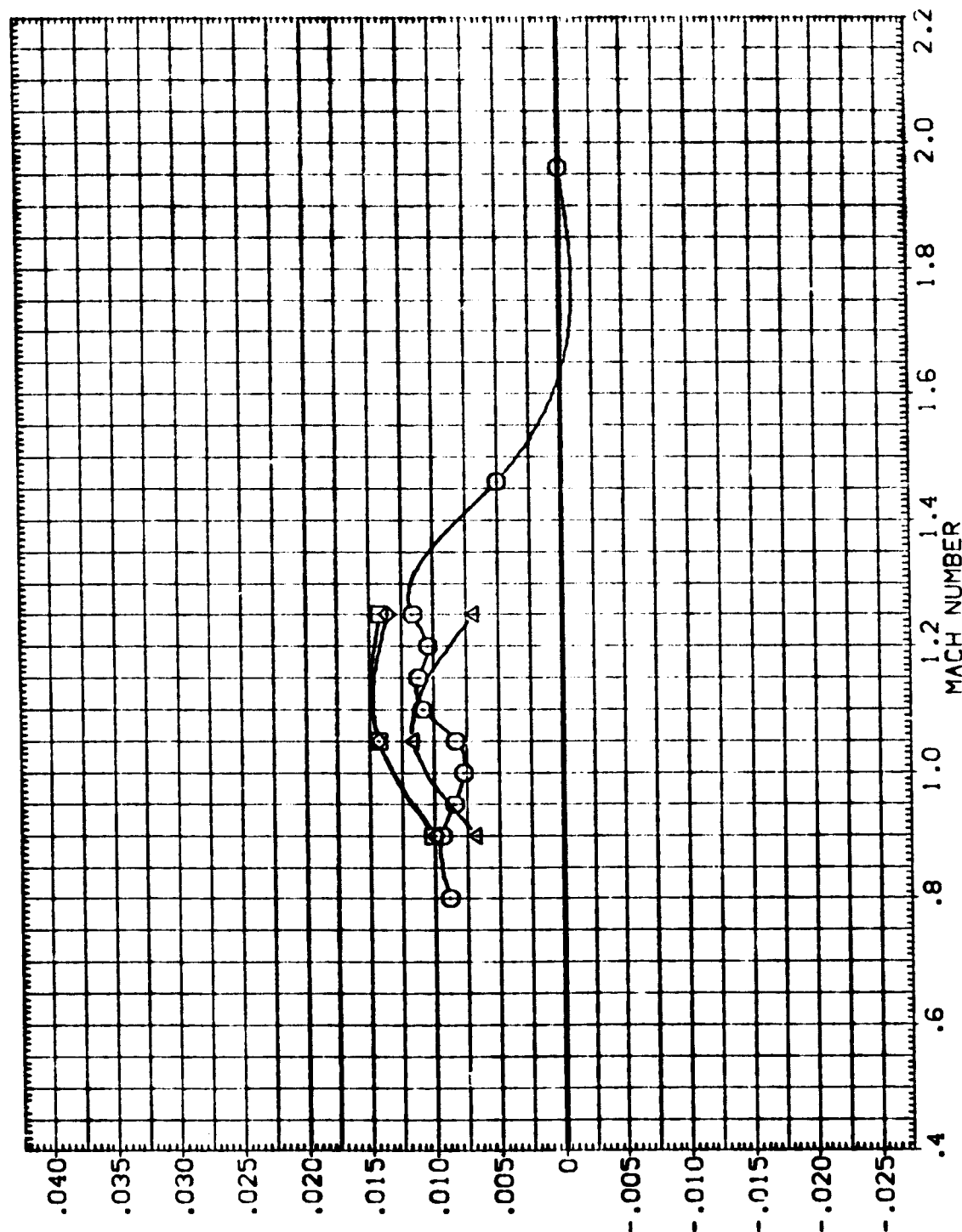
(C) ALPHA = -2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPOR .000

MSFC TWT610 (IA-71) 77-0.74-TS Z10 W/FAIRINGSF3
MSFC TWT610 (IA-71) 77-0.74-TS Z10 W/FAIRINGSF5
MSFC TWT610 (IA-71) 77-0.74-TS Z10 W/FAIRINGSF11

DATA SET SYMBOL
(NIR219)
(NIR222)
(NIR223)
(NIR224)



WING TORSION MOMENT COEFFICIENT, C_{tw}

FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(O) ALPHA = .00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPOR 10.000
.000
.000
.000
.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N14219) MSFC TUT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF3
(N14222) MSFC TUT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF5
(N14223) MSFC TUT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF1
(N14224) MSFC TUT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF1

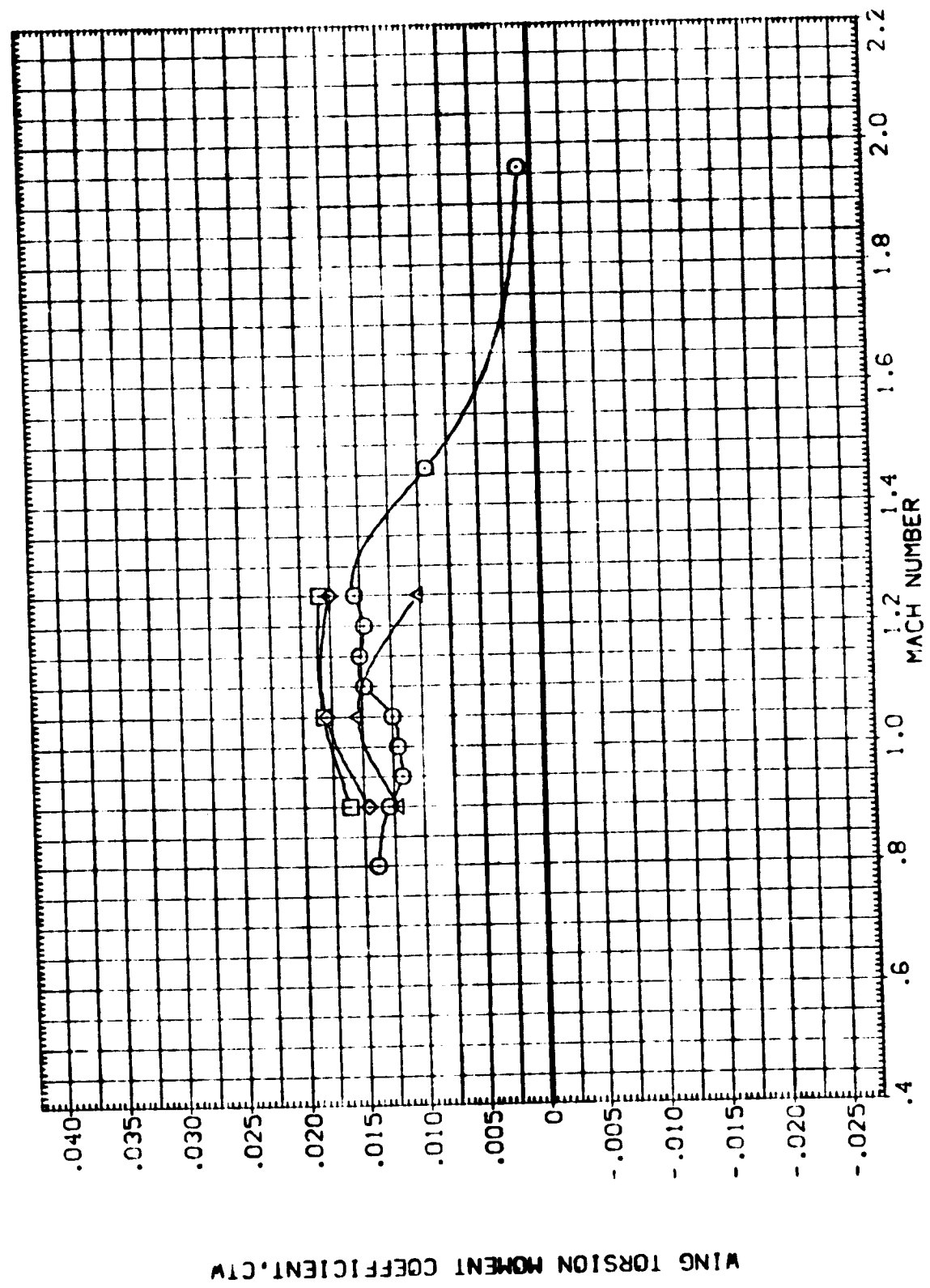


FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(E)ALPHA = 2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPDR 10.000
.000
.000
.000
.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K219) MSC TV'6:0 (A-71) 77-0.74-TS Z10 V/FAIRINGSF3
(N1K222) MSC TV'6:0 (A-71) 77-0.74-TS Z10 V/FAIRINGSF3
(N1K223) MSC TV'6:0 (A-71) 77-0.74-TS Z10 V/FAIRINGSF3
(N1K224) MSC TV'6:0 (A-71) 77-0.74-TS Z10 V/FAIRINGSF3

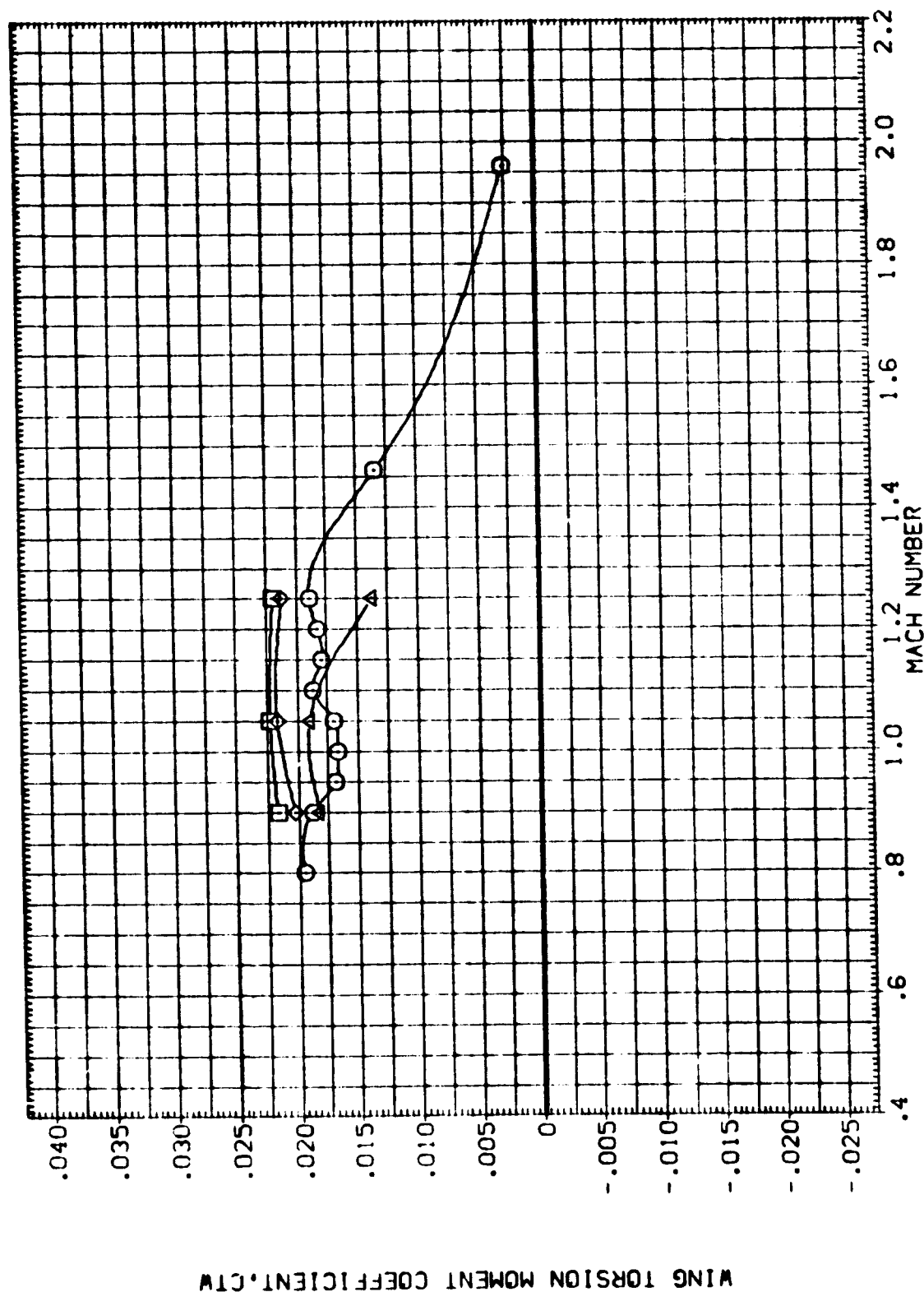


FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(F)ALPHA = 4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORB INC .000
FLIPDR 10.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK219) MSFC 1A7610 (1A-71) 77-0.74-TS Z10
(NIK222) MSFC 1A7610 (1A-71) 77-0.74-TS Z10 VFAIRINGSF3
(NIK223) MSFC 1A7610 (1A-71) 77-0.74-TS Z10 VFAIRINGSF5
(NIK224) MSFC 1A7610 (1A-71) 77-0.74-TS Z10 VFAIRINGSF11

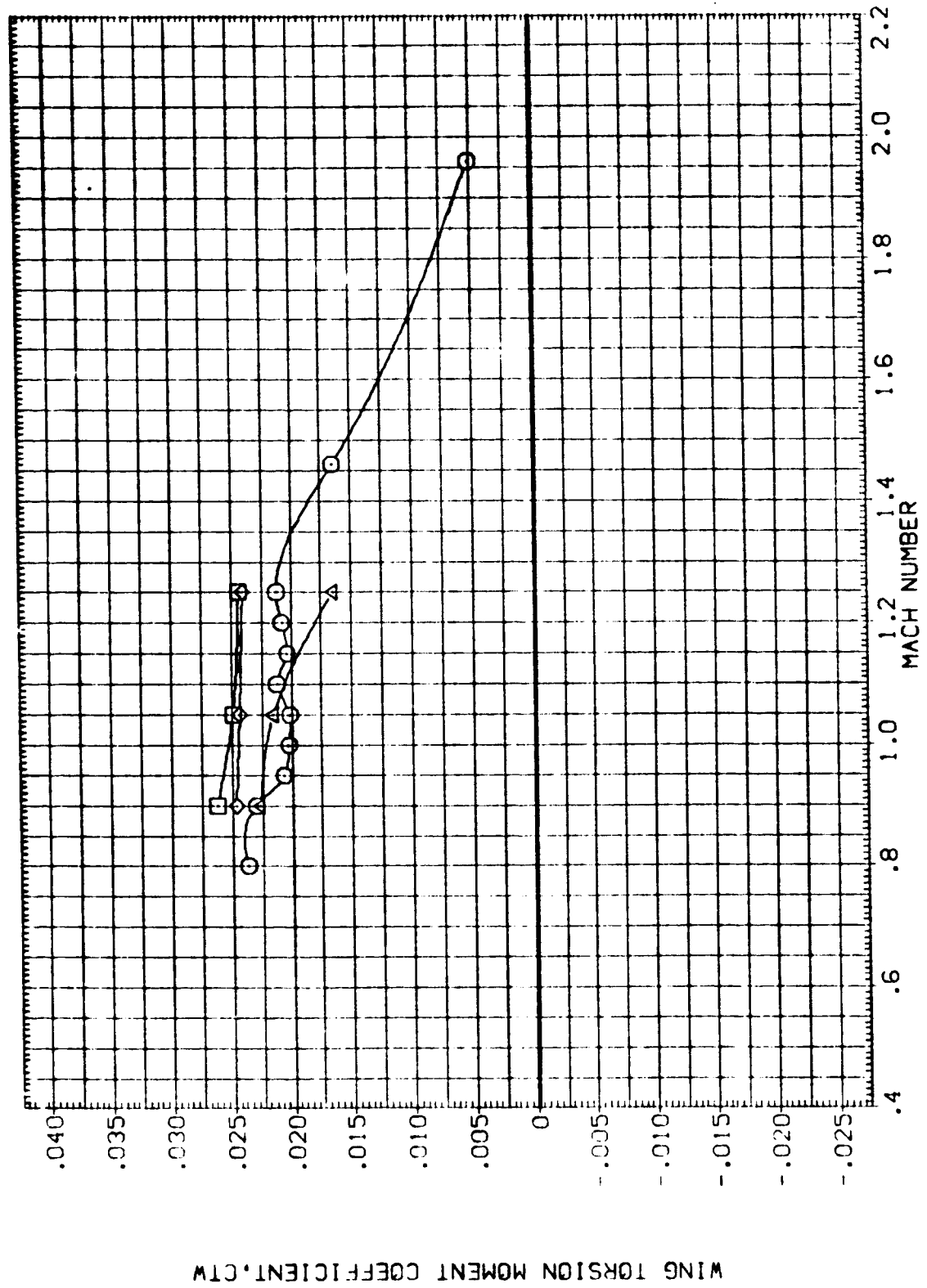


FIGURE 10 EFFECT OF FAIRING ON WING LOAD

(G) ALPHA = 5.70

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (NIK231) MSFC TWT610 (1A-71) 77-0.74-TS Z13
 (NIK232) MSFC TWT610 (1A-71) 77-0.74-TS Z13
 (NIK237) MSFC TWT610 (1A-71) 77-0.74-TS Z10

BETA ORBINC FLIPOR
 .000 .000 20.000
 .000 .000 40.000
 .000 .000 20.000

SEE THE ASSOCIATED DATA
 DOCUMENT FOR REFERENCE
 CHARACTERISTICS FOR
 INDIVIDUAL DATASETS

WING NORMAL FORCE COEFFICIENT, CNW

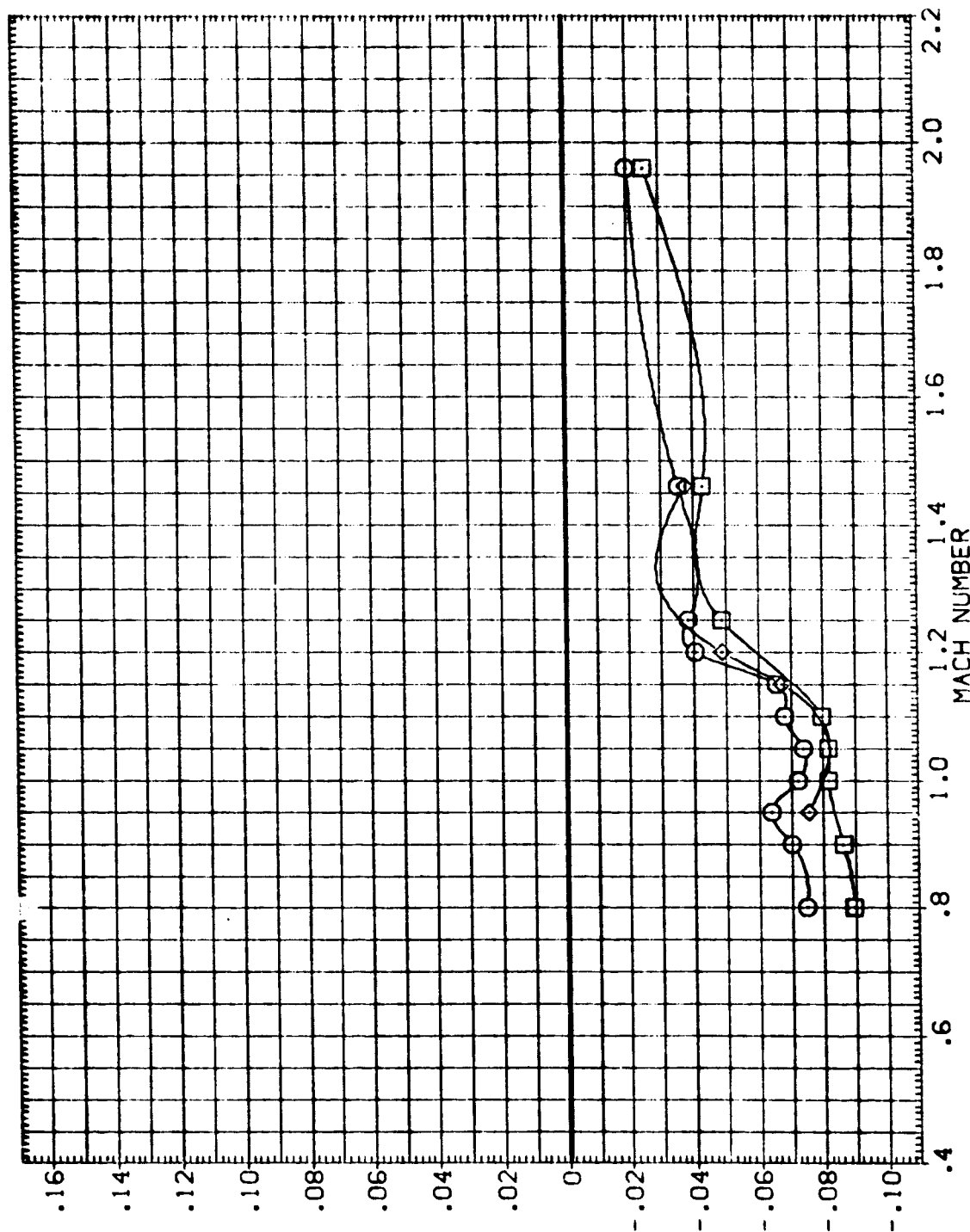


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(A) ALPHA = -6.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000 .000
ORBINC .000 .000 .000
FLIPDR 20.000 40.000 20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK231) MSFC TW610 (1A-71) 77-0.74-TS Z13
(NIK232) MSFC TW610 (1A-71) 77-0.74-TS Z13
(NIK237) MSFC TW610 (1A-71) 77-0.74-TS Z10

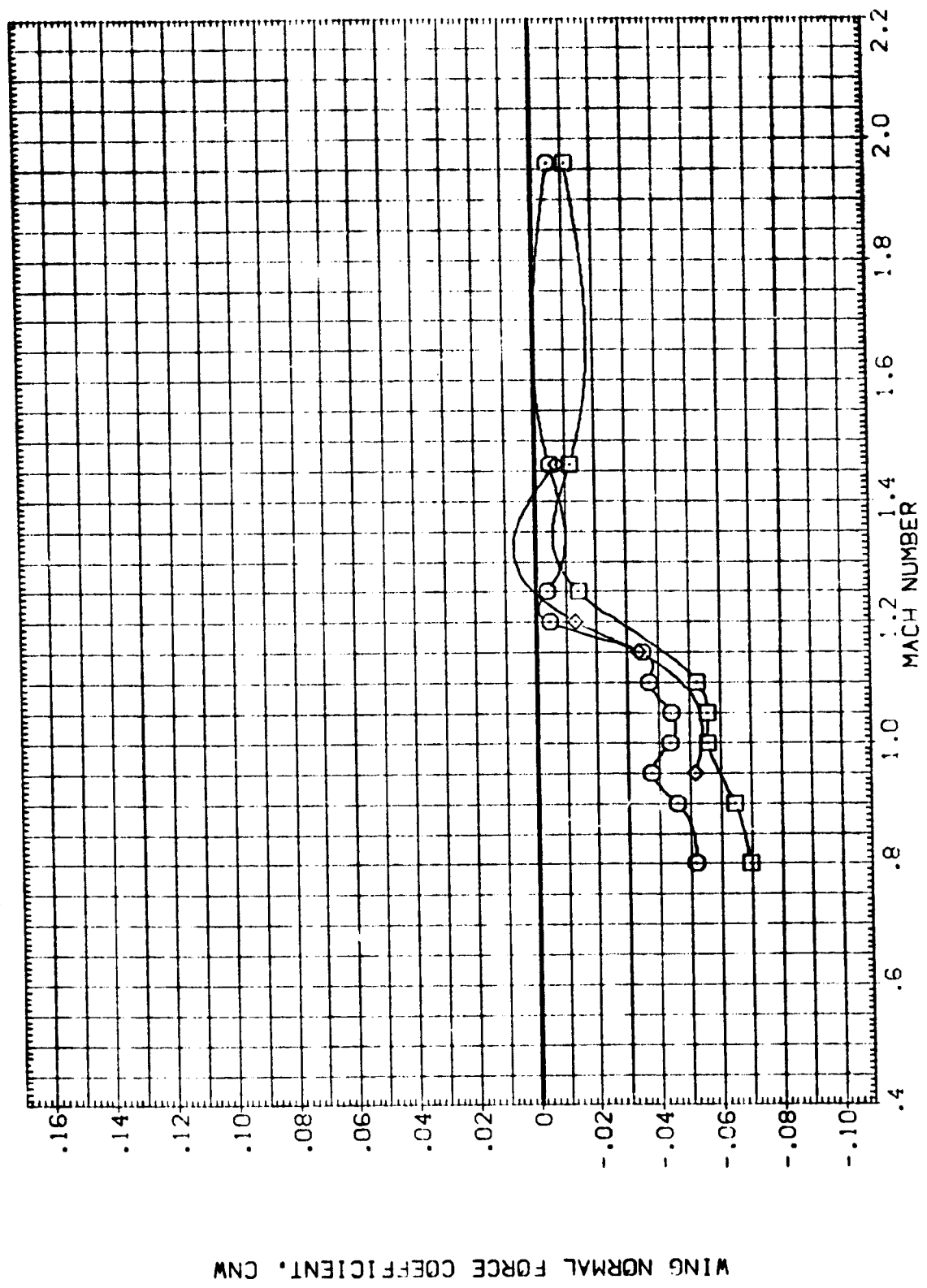


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(B) ALPHA = -4.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (NIK231) MSFC TWT610 (1A-71) 77-0.74-TS Z13
 (NIK232) MSFC TWT610 (1A-71) 77-0.74-TS Z13
 (NIK237) MSFC TWT610 (1A-71) 77-0.74-TS Z10

BETA ORBINC FLIPOR
 .000 .000 20.000
 .000 .000 40.000
 .000 .000 20.000

SEE THE ASSOCIATED DATA
 DOCUMENT FOR REFERENCE
 CHARACTERISTICS FOR
 INDIVIDUAL DATASETS

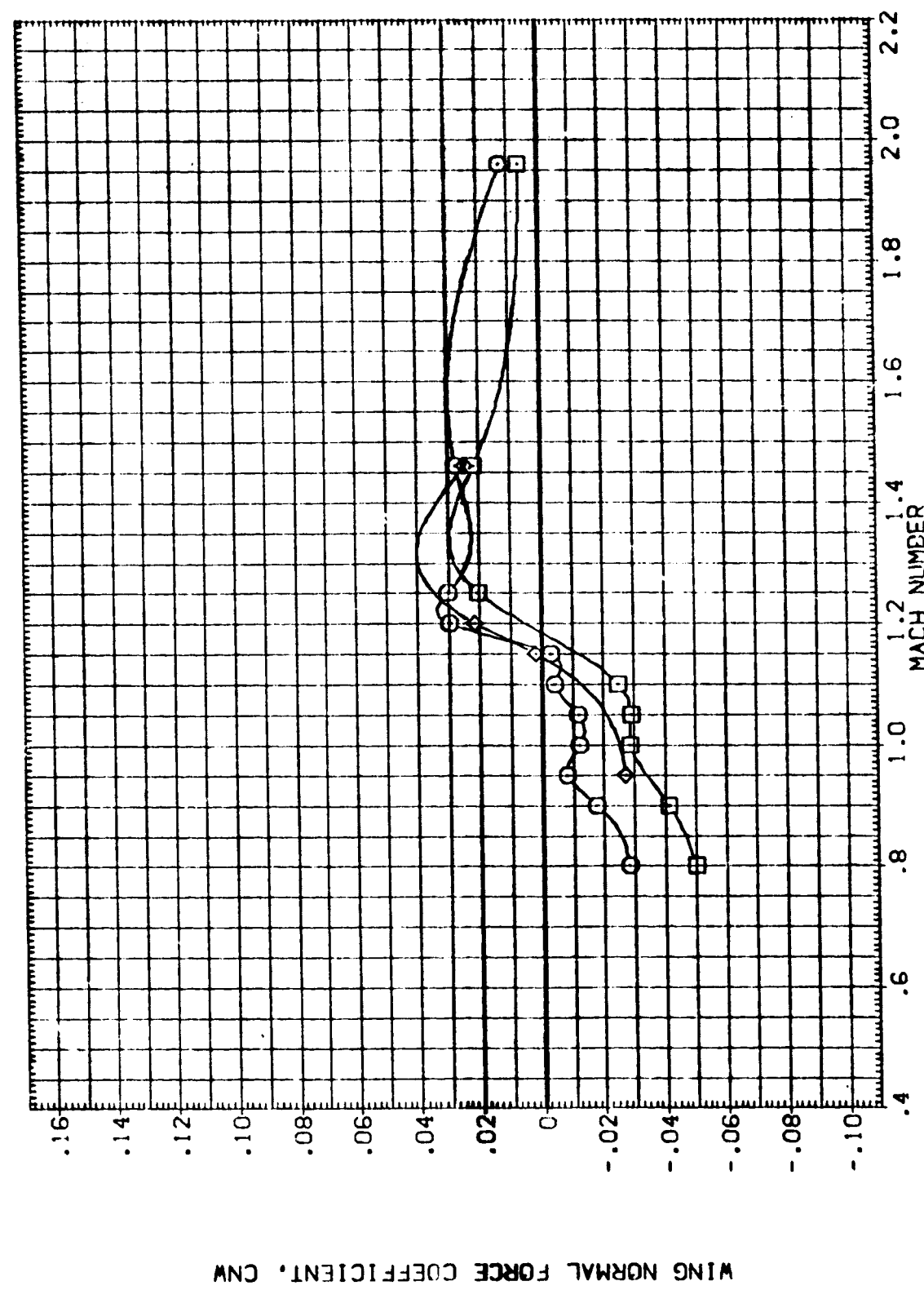


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(C) ALPHA = -2.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORB INC .000
FLIPOR 20.000
40.000
20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K231) MSFC TWT610 (1A-71) 77-0.74-TS Z13
(N1K232) MSFC TWT610 (1A-71) 77-0.74-TS Z13
(N1K237) MSFC TWT610 (1A-71) 77-0.74-TS Z10

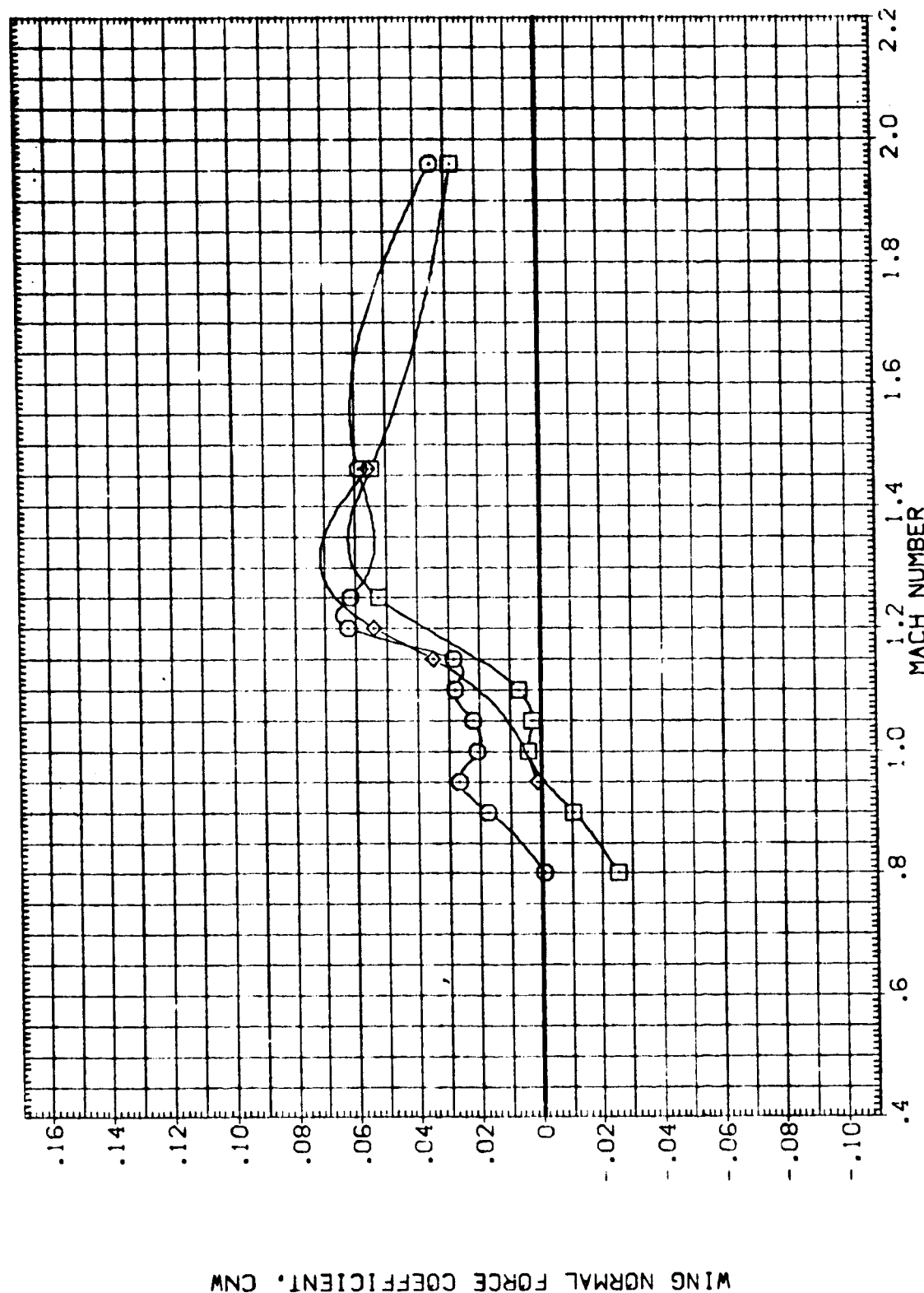


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(D) ALPHA = .00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBIT .000
FLIPDR 20.000
40.000
20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
MSFC TUT610 (1A-71) 77-0.74-TS Z13
MSFC TUT610 (1A-71) 77-0.74-TS Z13
MSFC TUT610 (1A-71) 77-0.74-TS Z10

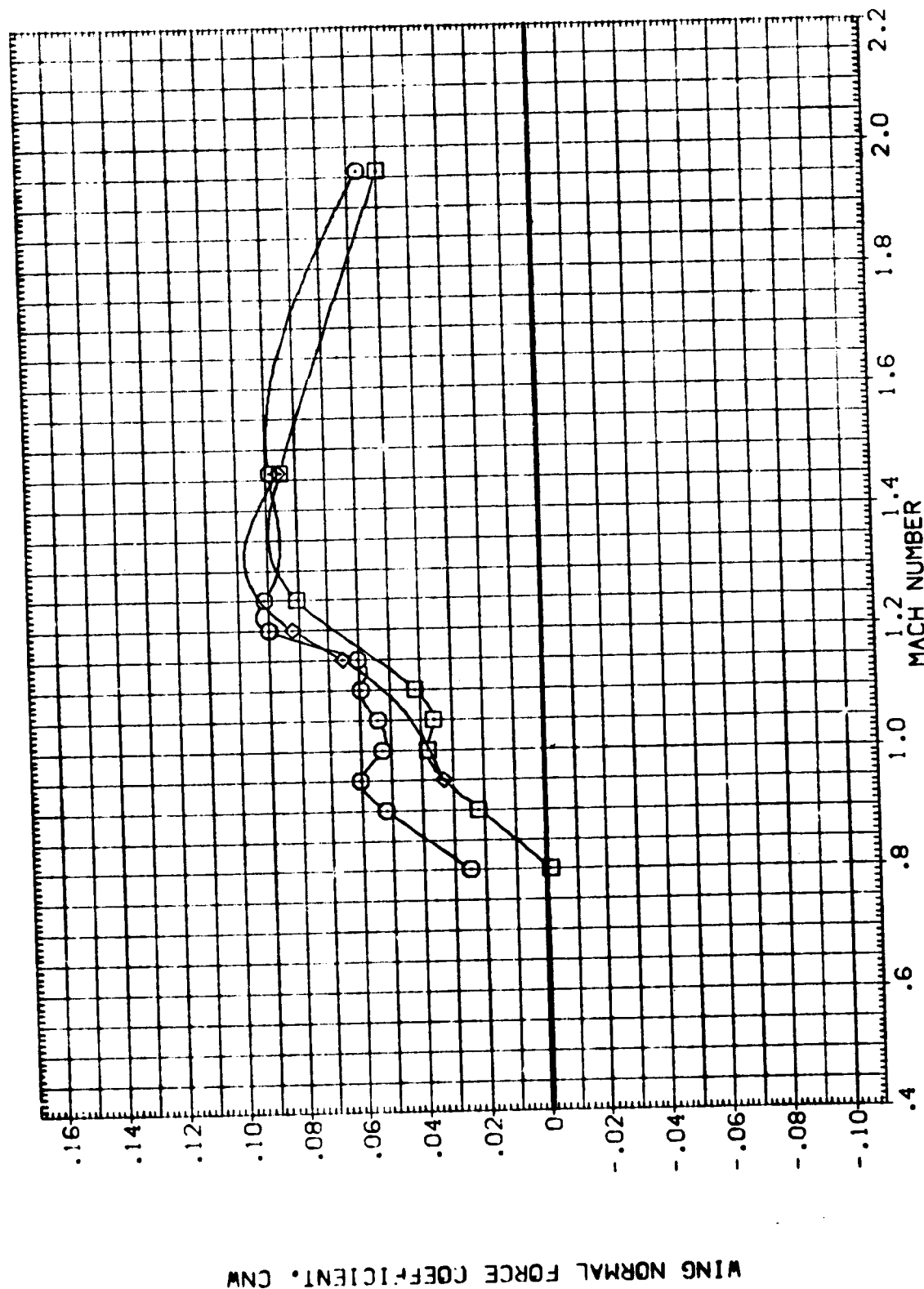


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(E) ALPHA = 2.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPDR
.000 .000 20.000
.000 .000 40.000
.000 .000 20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK231) MSFC TW1610 (1A-71) 77-0.74-TS Z13
(NIK232) MSFC TW1610 (1A-71) 77-0.74-TS Z13
(NIK237) MSFC TW1610 (1A-71) 77-0.74-TS Z10

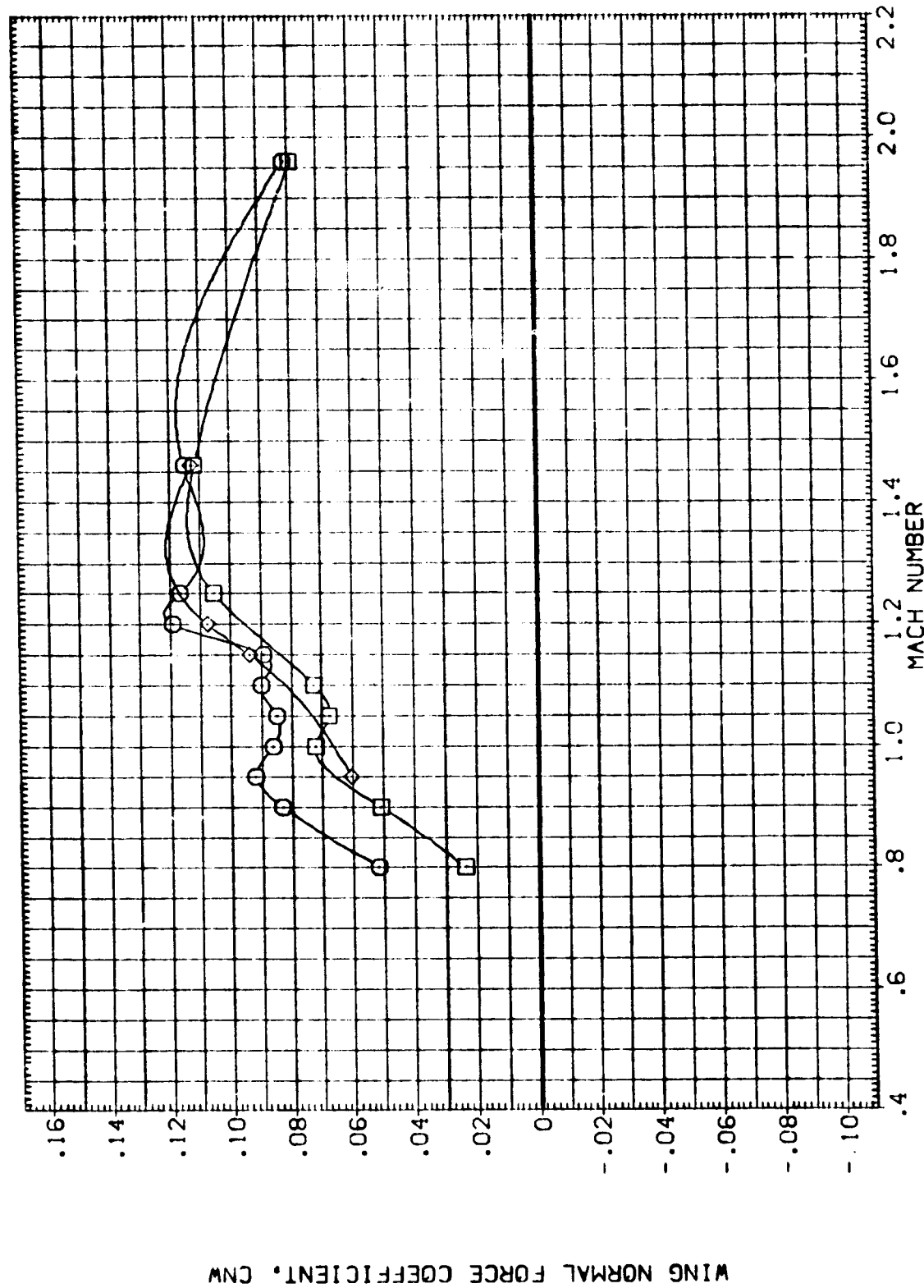


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(F)ALPHA = 4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPDR
.000 .000 20.000
.000 .000 40.000
.000 .000 20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K231) MSFC TW610 (1A-71) 77-0.74-TS Z13
(N1K232) MSFC TW610 (1A-71) 77-0.74-TS Z13
(N1K233) MSFC TW610 (1A-71) 77-0.74-TS Z10

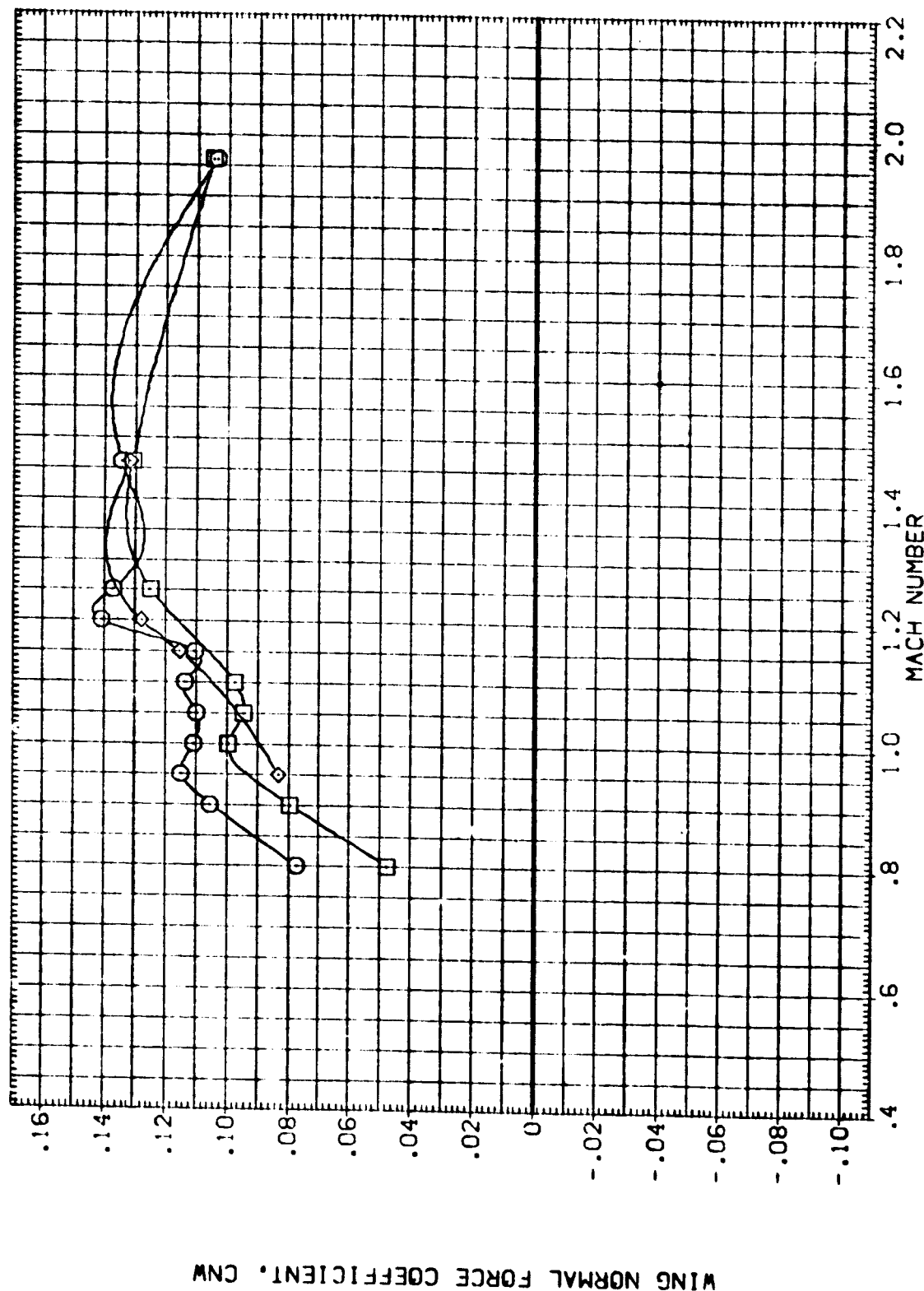


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(G)ALPHA = 5.70



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORB INC FLIPDR
.000 .000 20.000
.000 .000 40.000
.000 .000 20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K231) MSFC TVT610 (1A-71) 77-0.74-TS Z13
(N1K232) MSFC TVT610 (1A-71) 77-0.74-TS Z13
(N1K233) MSFC TVT610 (1A-71) 77-0.74-TS Z13

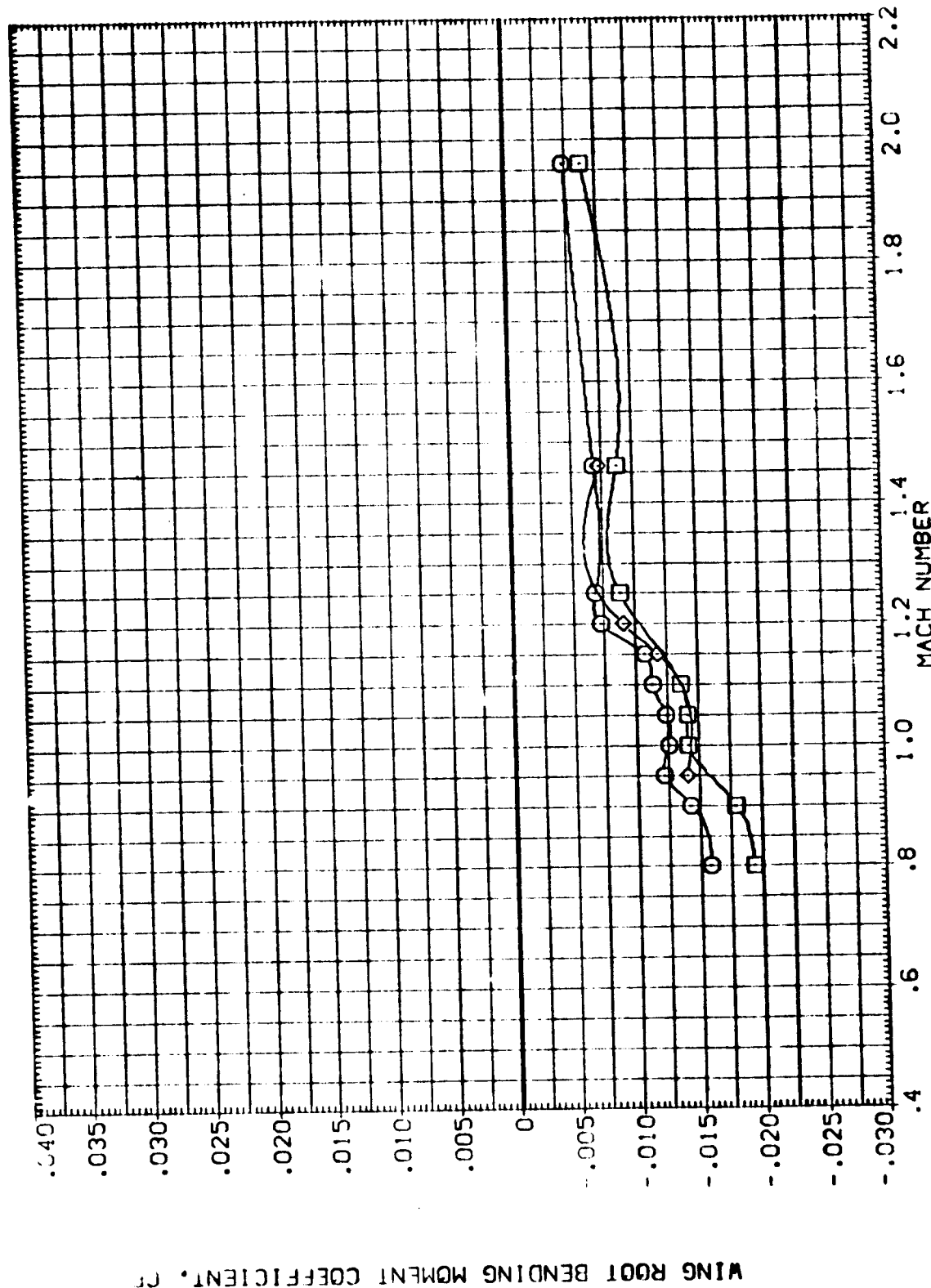


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(A) ALPHA = -6.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPDR 20.000
40.000
20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K231) MSFC TV1610 (1A-71) 77-0.74-TS Z13
(N1K232) MSFC TV1610 (1A-71) 77-0.74-TS Z13
(N1K237) MSFC TV1610 (1A-71) 77-0.74-TS Z10

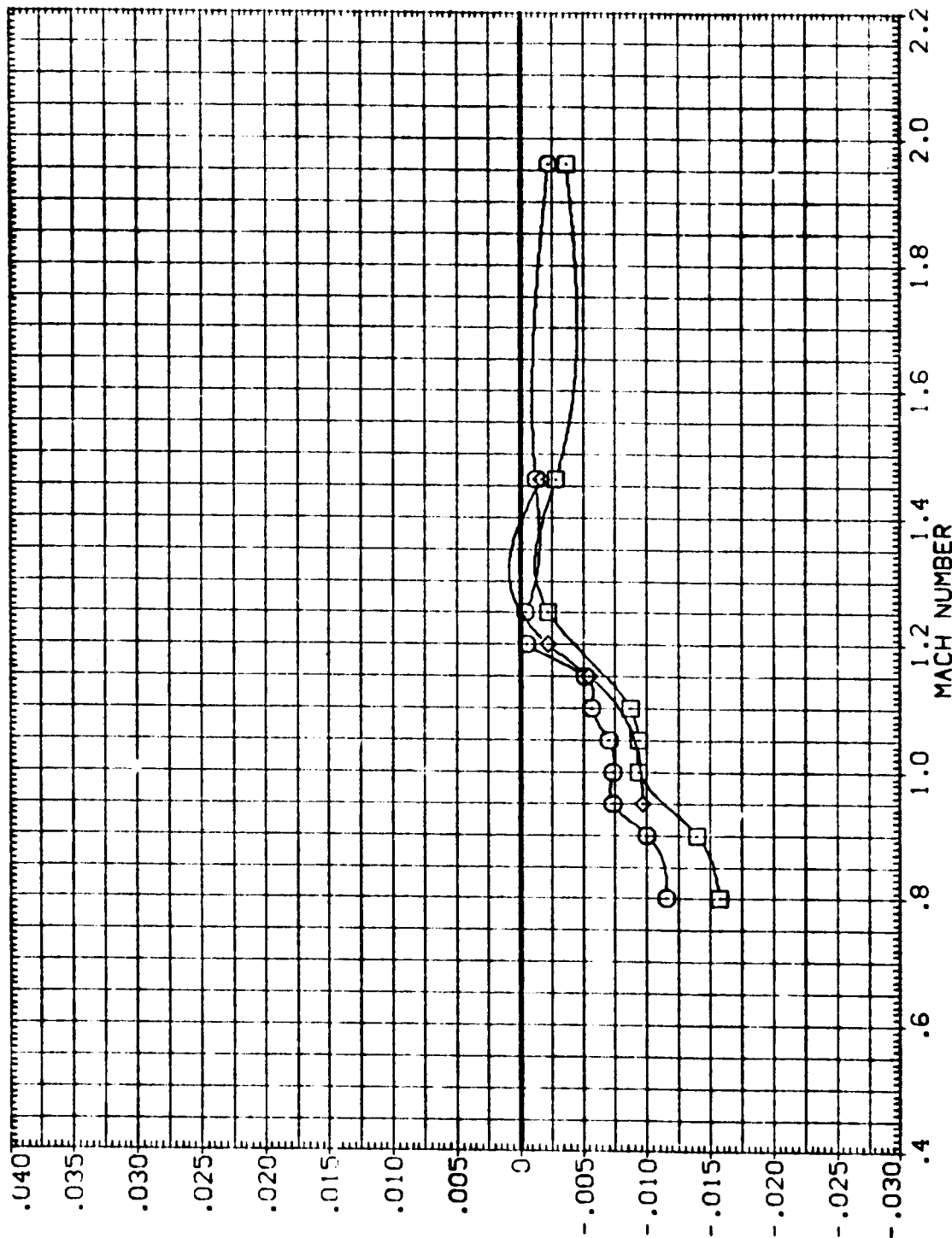


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(B) ALPHA = -4.00



C

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATA SETS

BETA .000
.000
.000
ORBINC .000
.000
.000
FLIPDR 20.000
40.000
20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK231) MSFC TVT610 (IA-71) 77-0.74-TS Z13
(NIK232) MSFC TVT610 (IA-71) 77-0.74-TS Z13
(NIK237) MSFC TVT610 (IA-71) 77-0.74-TS Z10

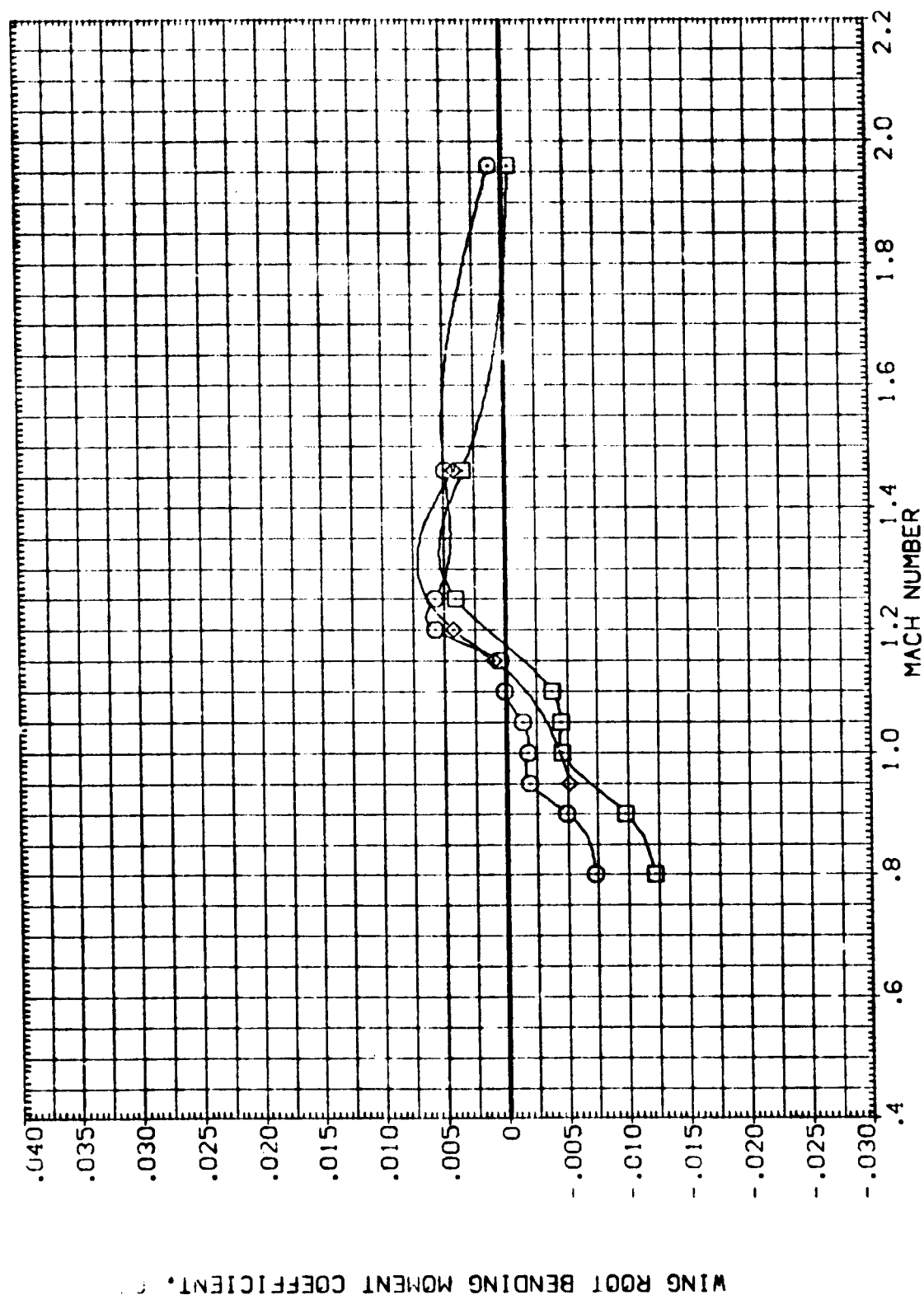


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(C)ALPHA = -2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
.000
.000
ORB IN. .000
.000
.000
FLIPDR 20.000
40.000
20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK231) MSFC TW610 (IA-71) 77-0.74-TS Z13
(NIK232) MSFC TW610 (IA-71) 77-0.74-TS Z13
(NIK237) MSFC TW610 (IA-71) 77-0.74-TS Z10

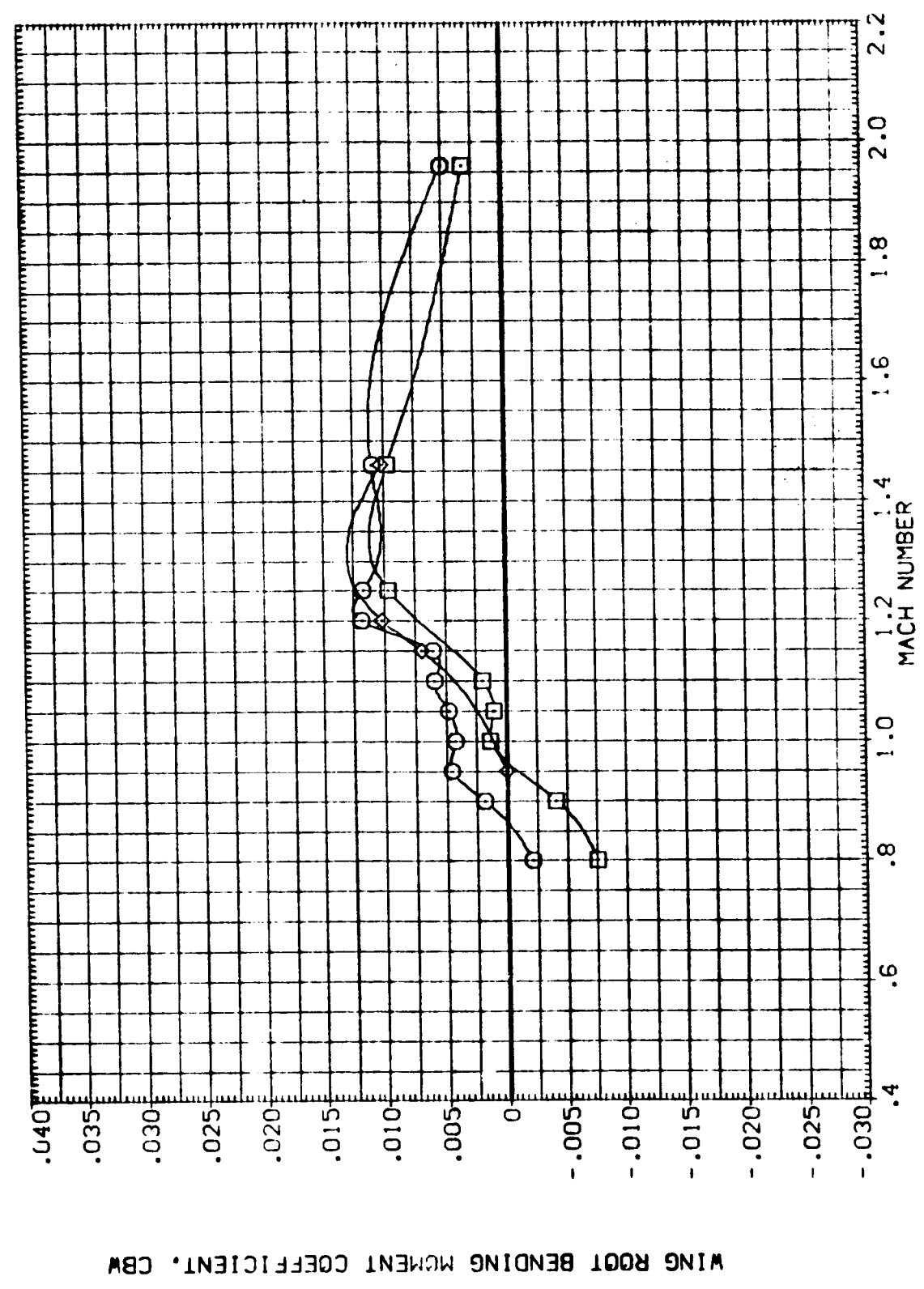


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(D) ALPHA = .00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA FLIPOR
.000 20.000
.000 40.000
.000 20.000

DATA SET SYMBOLS CONFIGURATION DESCRIPTION
(NIR231) MS-1 TW-610 (1A-71) 77-0.74-TS Z13
(NIR232) MS-2 TW-610 (1A-71) 77-0.74-TS Z13
(NIR233) MS-3 TW-610 (1A-71) 77-0.74-TS Z10

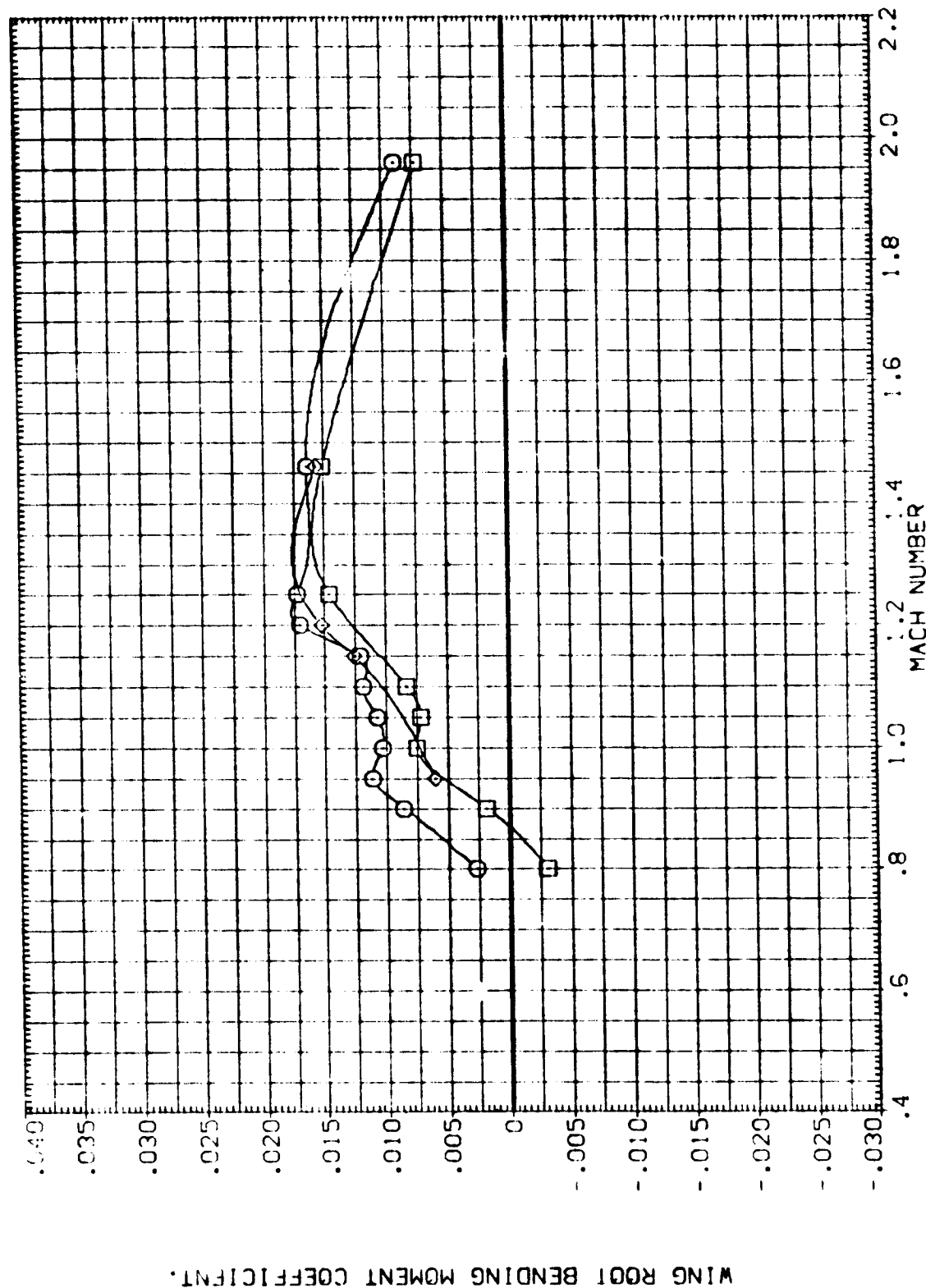


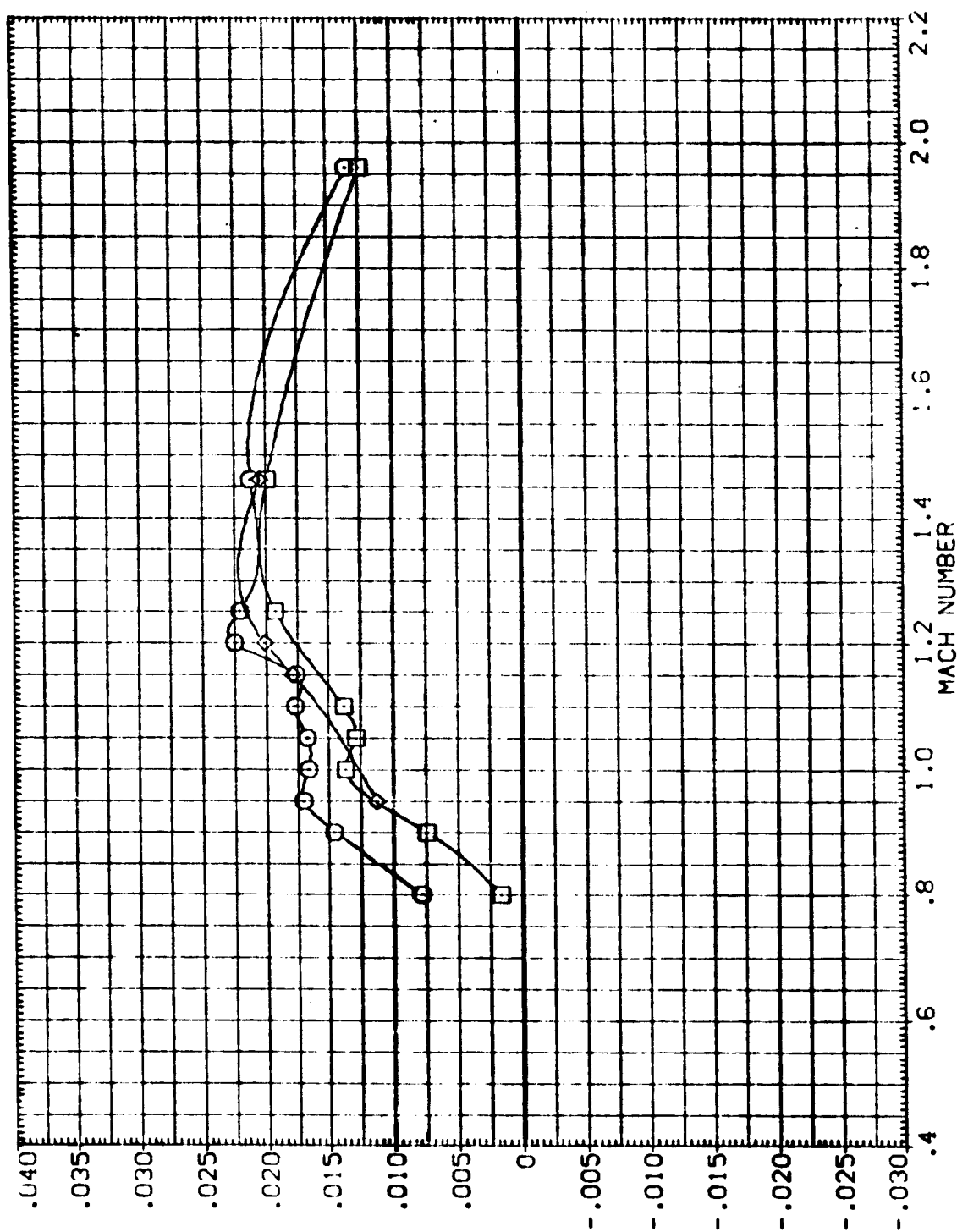
FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(E) ALPHA = 2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000 .000
DRBINC .000 .000 .000
FLIPDR 20.000 40.000 20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K231) MSFC TVT610 (1A-71) 77-0.74-TS Z13
(N1K232) MSFC TVT610 (1A-71) 77-0.74-TS Z13
(N1K237) MSFC TVT610 (1A-71) 77-0.74-TS Z10



WING ROOT BENDING MOMENT COEFFICIENT, CBW

FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(F) ALPHA = 4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000 .000
ORBINC .000 .000 .000
FLIPDR 20.000 40.000 20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K231) MSFC TW610 (IA-71) 77-0.74-TS Z13
(N1K232) MSFC TW610 (IA-71) 77-0.74-TS Z13
(N1K237) MSFC TW610 (IA-71) 77-0.74-TS Z10

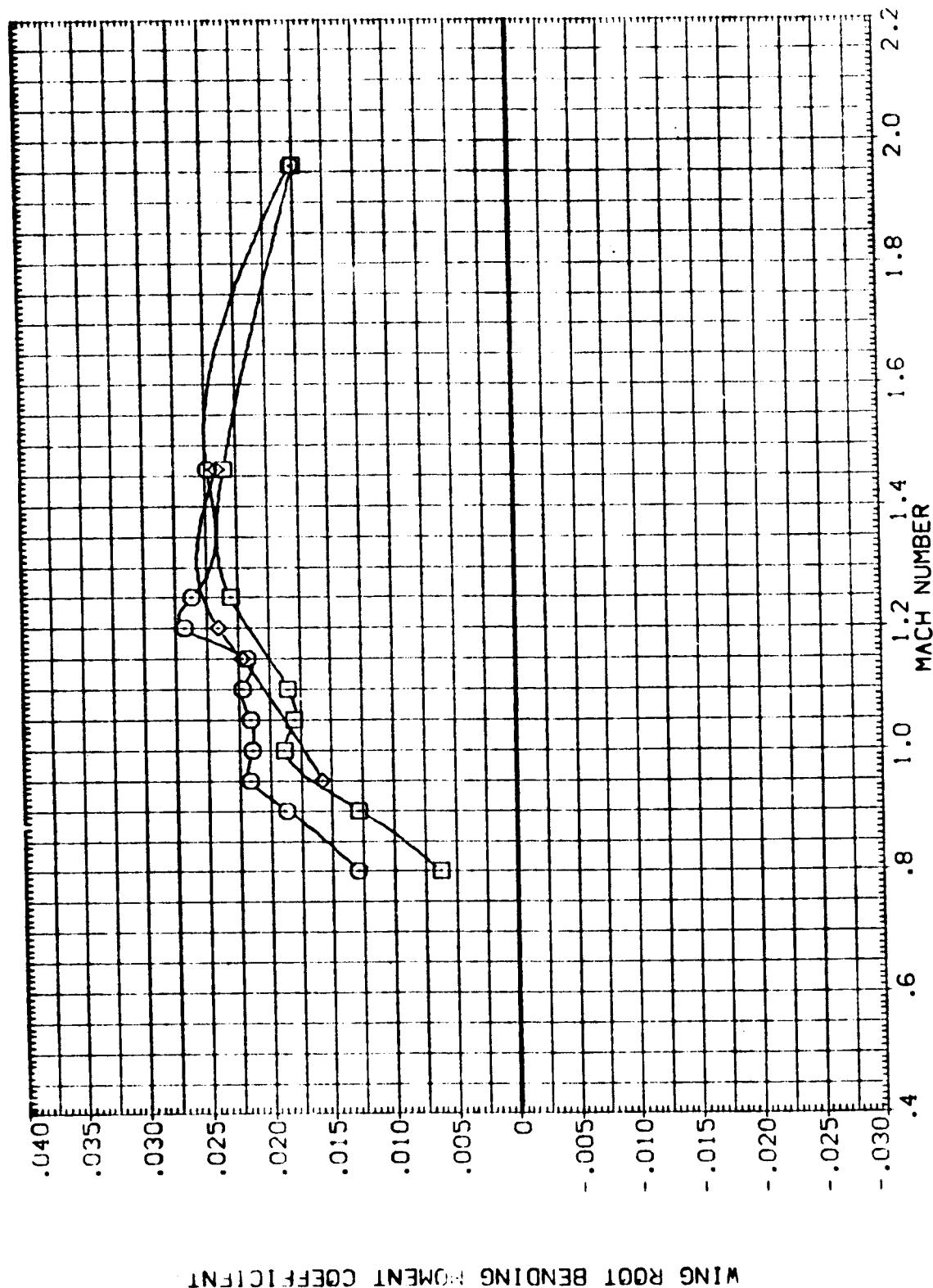


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(G)ALPHA = 5.70

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATA SETS

BETA .000 .000 .000
ORBINC .000 .000 .000
FLIPDR 20.000 40.000 20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K231) MSFC TWT610 (1A-71) 77-0.74-TS Z13
(N1K232) MSFC TWT610 (1A-71) 77-0.74-TS Z13
(N1K237) MSFC TWT610 (1A-71) 77-0.74-TS Z10

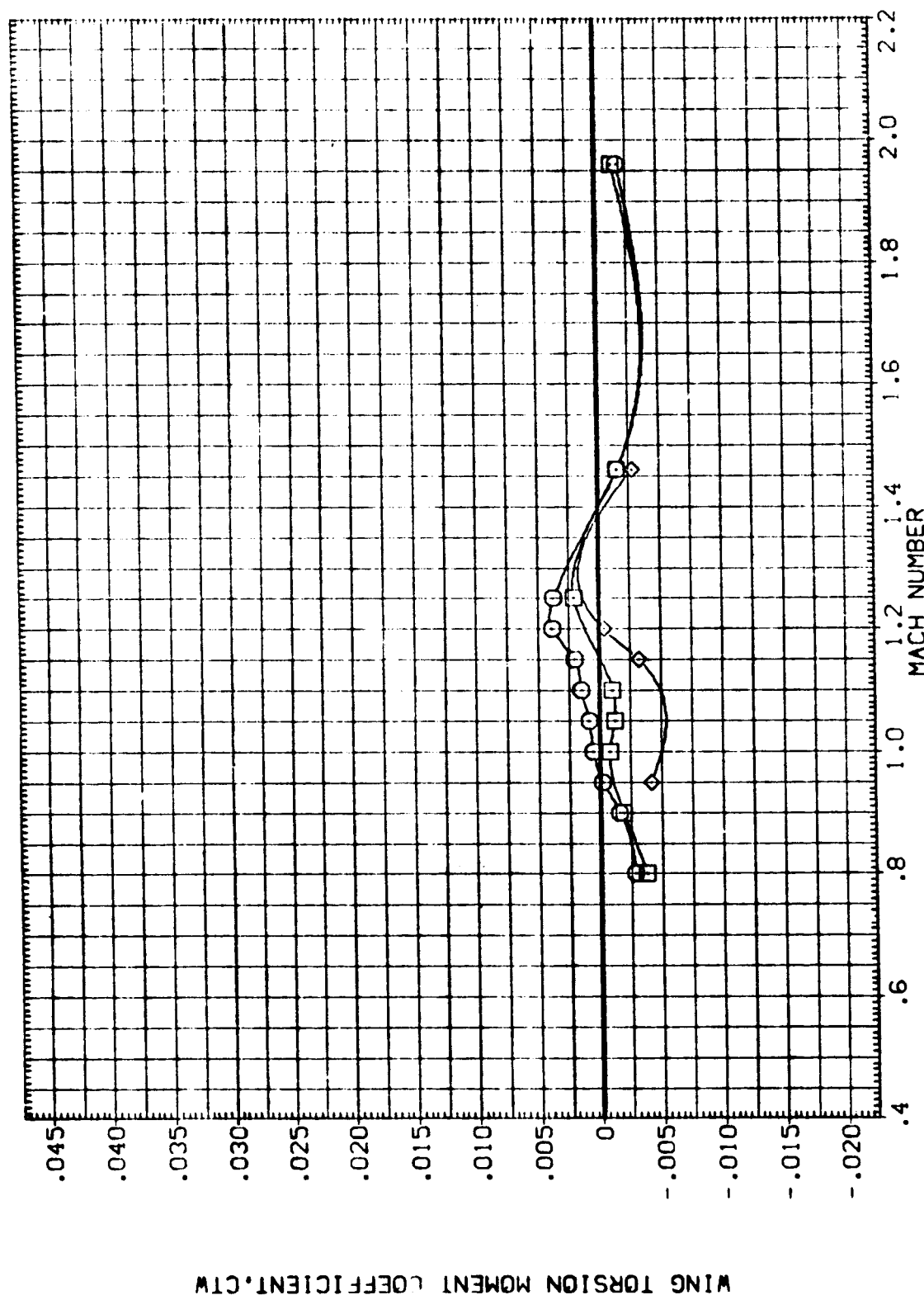


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(A) ALPHA = -6.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK231) MSFC TW610 (1A-71) 77-0.74-TS Z13
(NIK232) MSFC TW610 (1A-71) 77-0.74-TS Z13
(NIK233) MSFC TW610 (1A-71) 77-0.74-TS Z10

BETA ORBINC FLIPDR
.000 .000 20.000
.000 .000 40.000
.000 .000 20.000

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

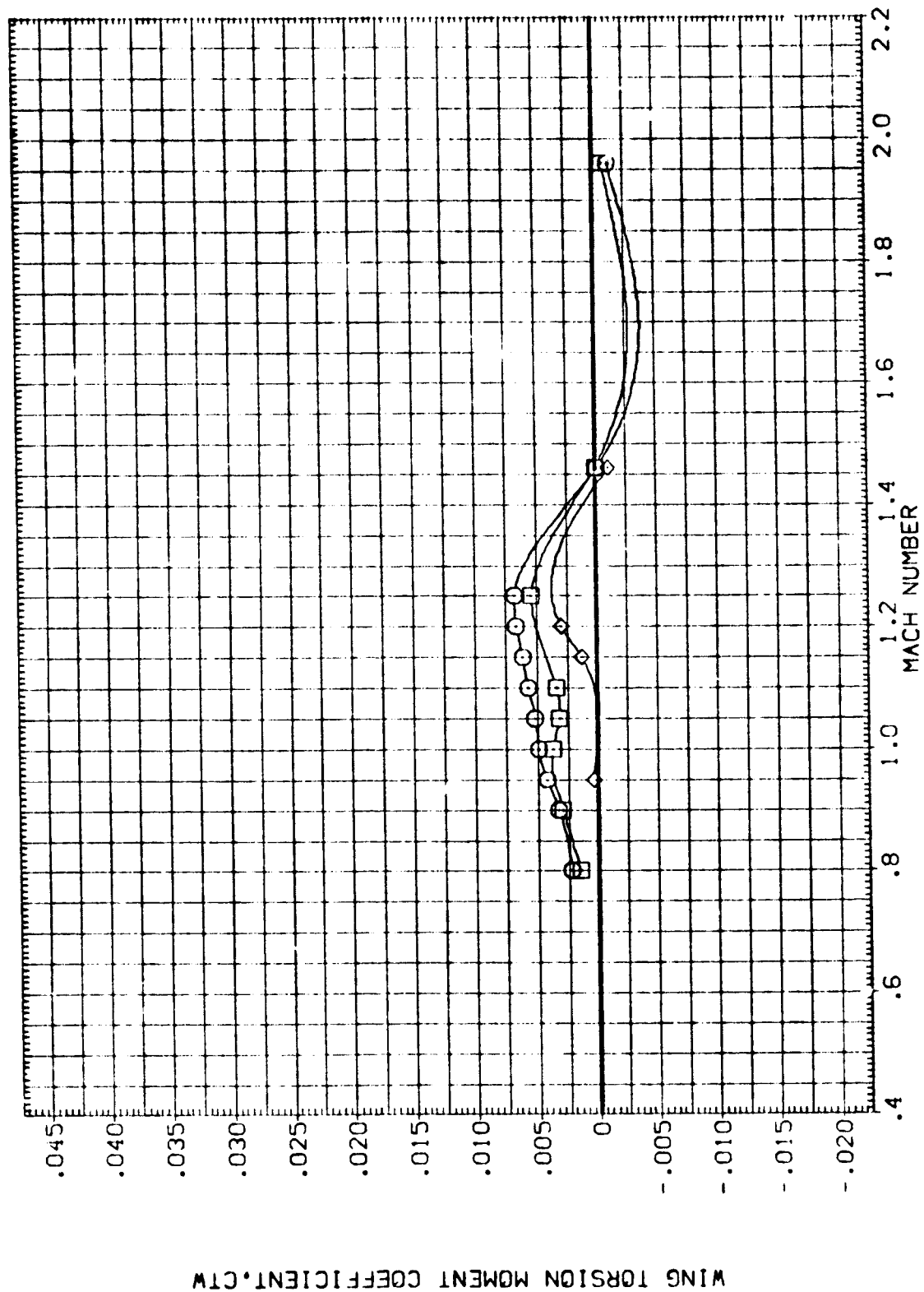


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(B) ALPHA = -4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPDR 20.000
40.000
20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK231) MSFC TVT610 (1A-71) 77-0.74-TS Z13
(NIK232) MSFC TVT610 (1A-71) 77-0.74-TS Z13
(NIK237) MSFC TVT610 (1A-71) 77-0.74-TS Z10

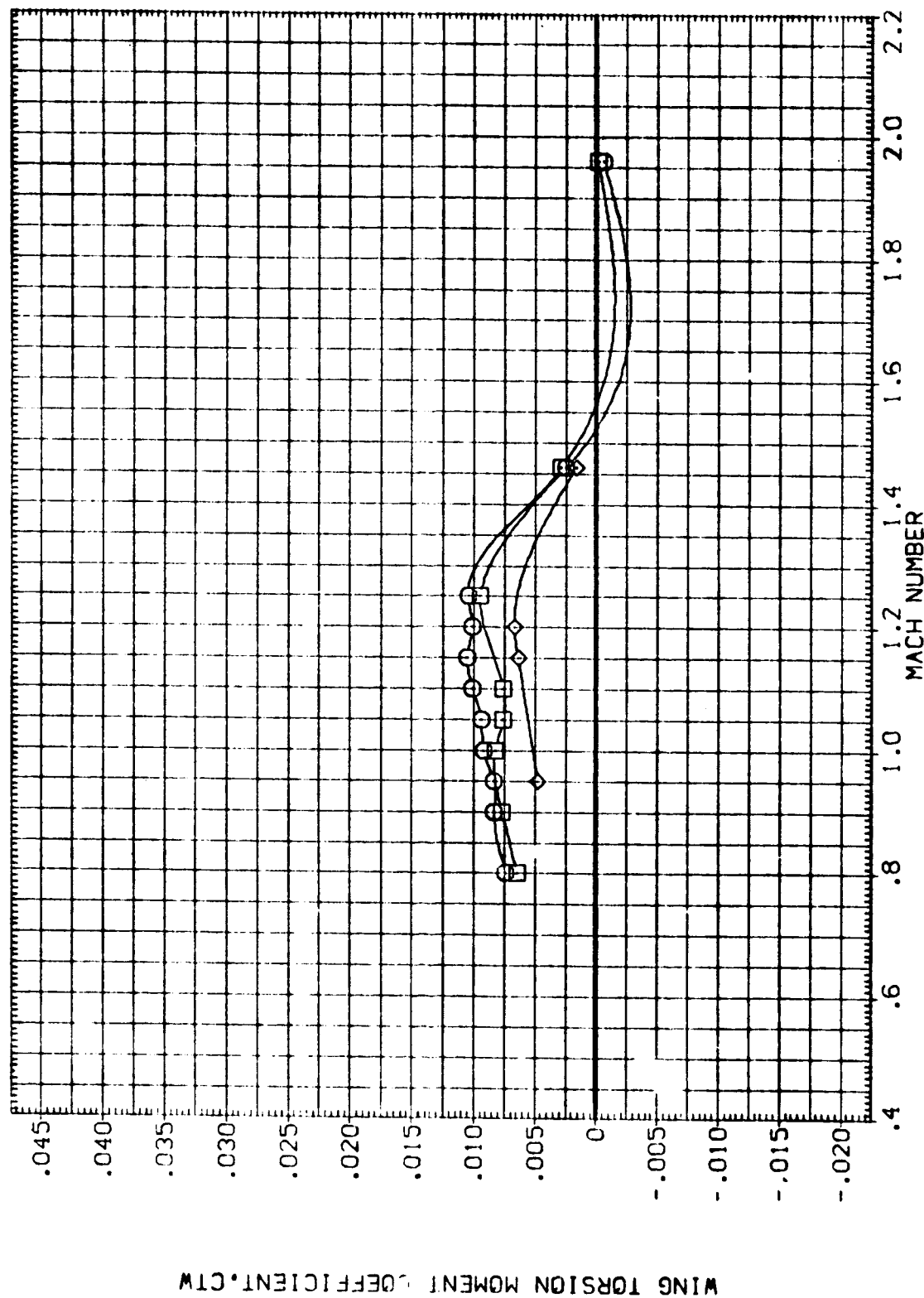


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(C) ALPHA = -2.00



E

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPDR
.000 .000 20.000
.000 .000 40.000
.000 .000 20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K231) MSFC TVT610 (1A-71) 77-0.74-TS Z13
(N1K232) MSFC TVT610 (1A-71) 77-0.74-TS Z13
(N1K237) MSFC TVT610 (1A-71) 77-0.74-TS Z10

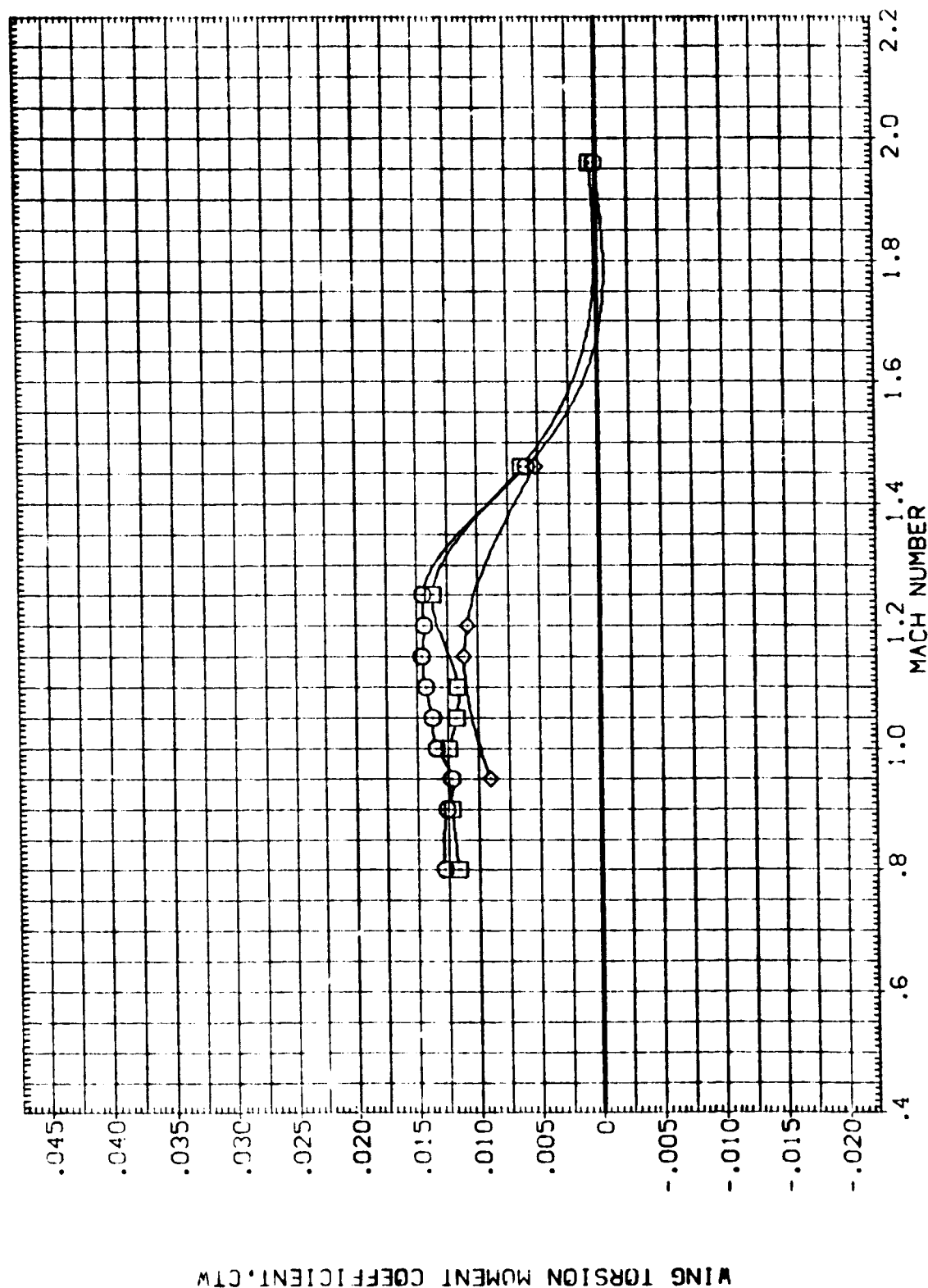


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(D) ALPHA = .00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATA SETS

BETA .000
ORBINC .000
FLIPOR 20.000
40.000
20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K231) MSC TVT610 (IA-71) 77-0.74-TS Z13
(N1K232) MSC TVT610 (IA-71) 77-0.74-TS Z13
(N1K233) MSC TVT610 (IA-71) 77-0.74-TS Z10

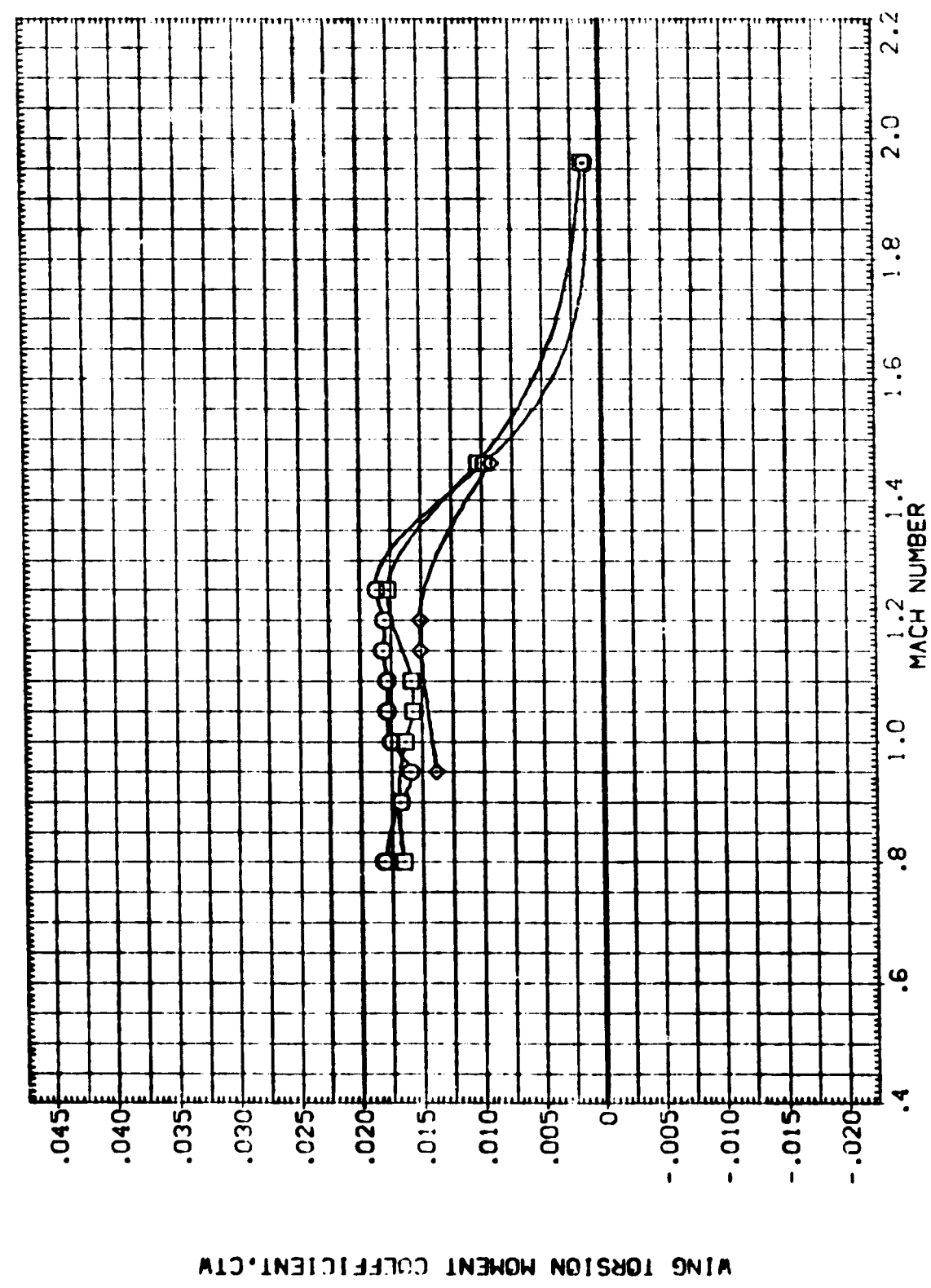


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(E) ALPHA = 2.00

11

C

DATA SET SYMBOL: (N1K231) (N1K232) (N1K237)
 CONFIGURATION DESCRIPTION: MSEC TV1610 (1A-71) 77-0.74-TS Z13
 MSEC TV1610 (1A-71) 77-0.74-TS Z13
 MSEC TV1610 (1A-71) 77-0.74-TS Z13
 SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

BETA: .000 .000 .000
 ORBINC: .000 .000 .000
 FLIPOR: 20.000 40.000 20.000

WING TORSION MOMENT COEFFICIENT, C_{tw}

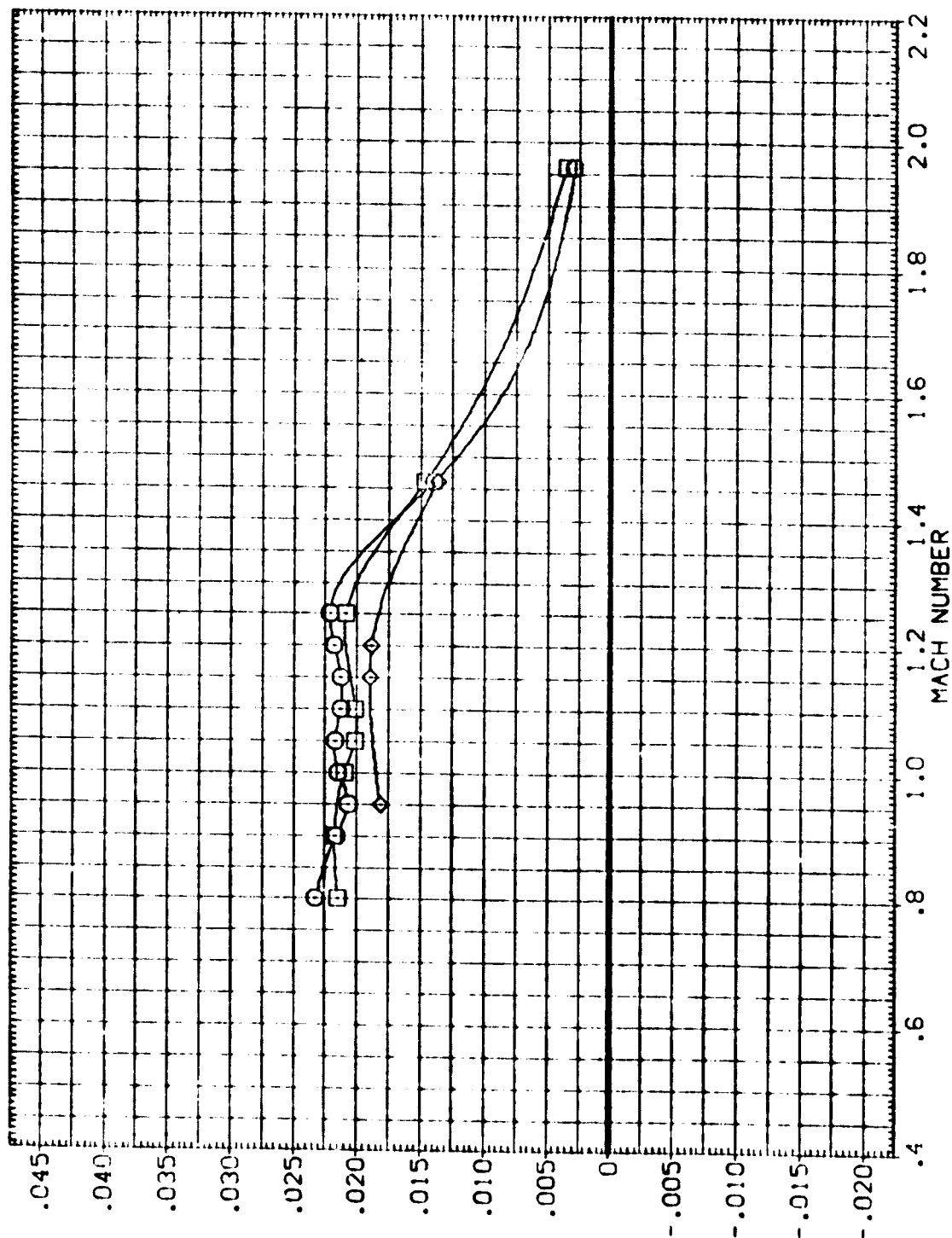


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(F) ALPHA = 4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA FLIPDR
.000 20.000
.000 40.000
.000 20.000

CONFIGURATION DESCRIPTION
MSFC TUT610 (1A-71) 77-0.74-TS Z13
MSFC TUT610 (1A-71) 77-0.74-TS Z13
MSFC TUT610 (1A-71) 77-0.74-TS Z10

DATA SET SYMBOL
(N1K231)
(N1K232)
(N1K237)

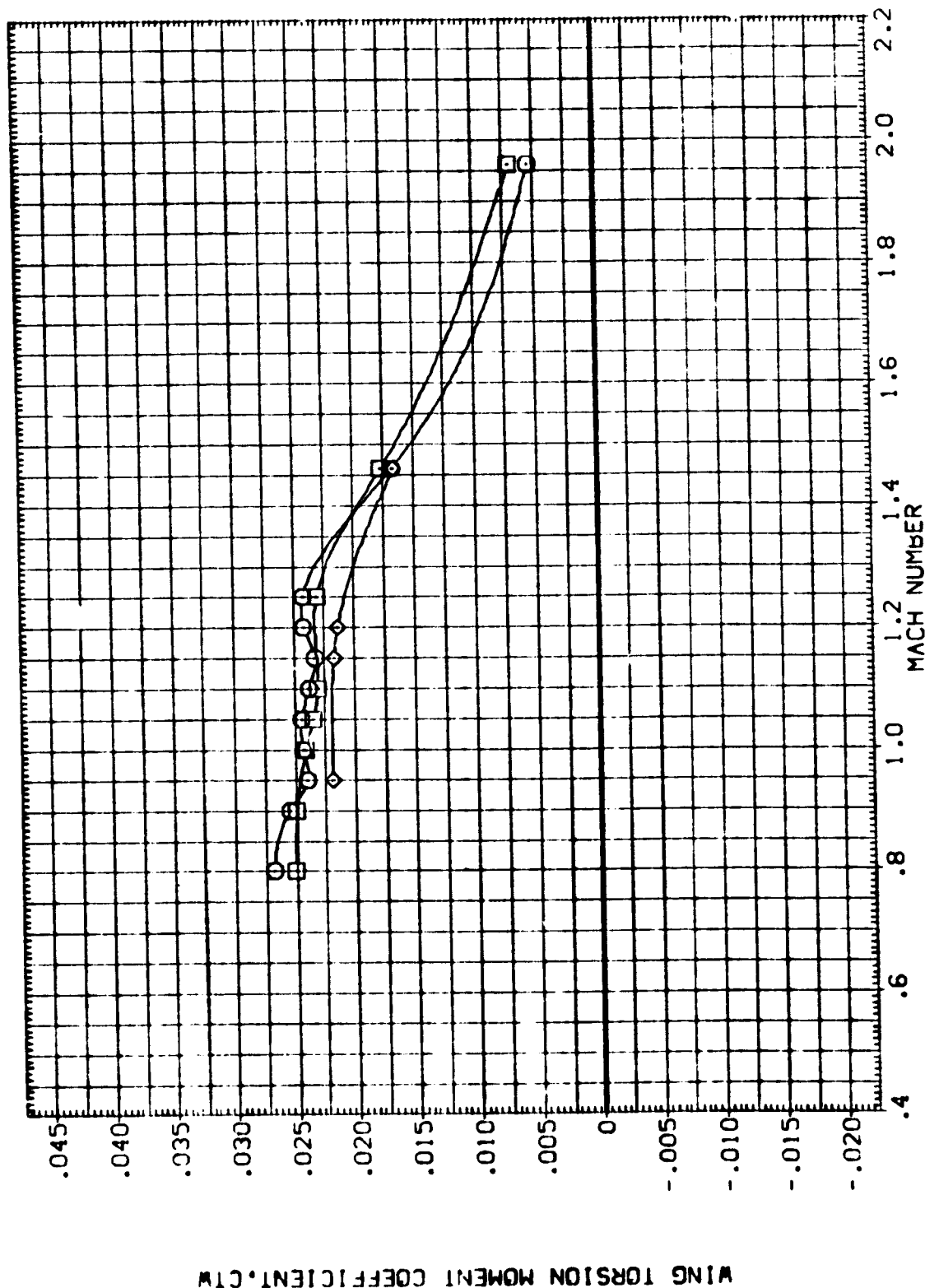


FIGURE 11 EFFECT OF FLIPPER DOOR CONFIGURATION ON WING LOAD (77-0.74-TS)

(G)ALPHA = 5.70



E

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA	ORBITING	FLIPPER
.000	.000	.000
.000	.000	.000
.000	.000	10.000
.000	.000	20.000
.000	.000	40.000

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(N1K101)	MSFC 1W610 ((A-7)) 74-OTS (STEEL)
(N1K102)	MSFC 1W610 ((A-7)) 74-OTS 210
(N1K103)	MSFC 1W610 ((A-7)) 74-OTS 74-15
(N1K104)	MSFC 1W610 ((A-7)) 74-OTS 210
(N1K105)	MSFC 1W610 ((A-7)) 74-OTS 210

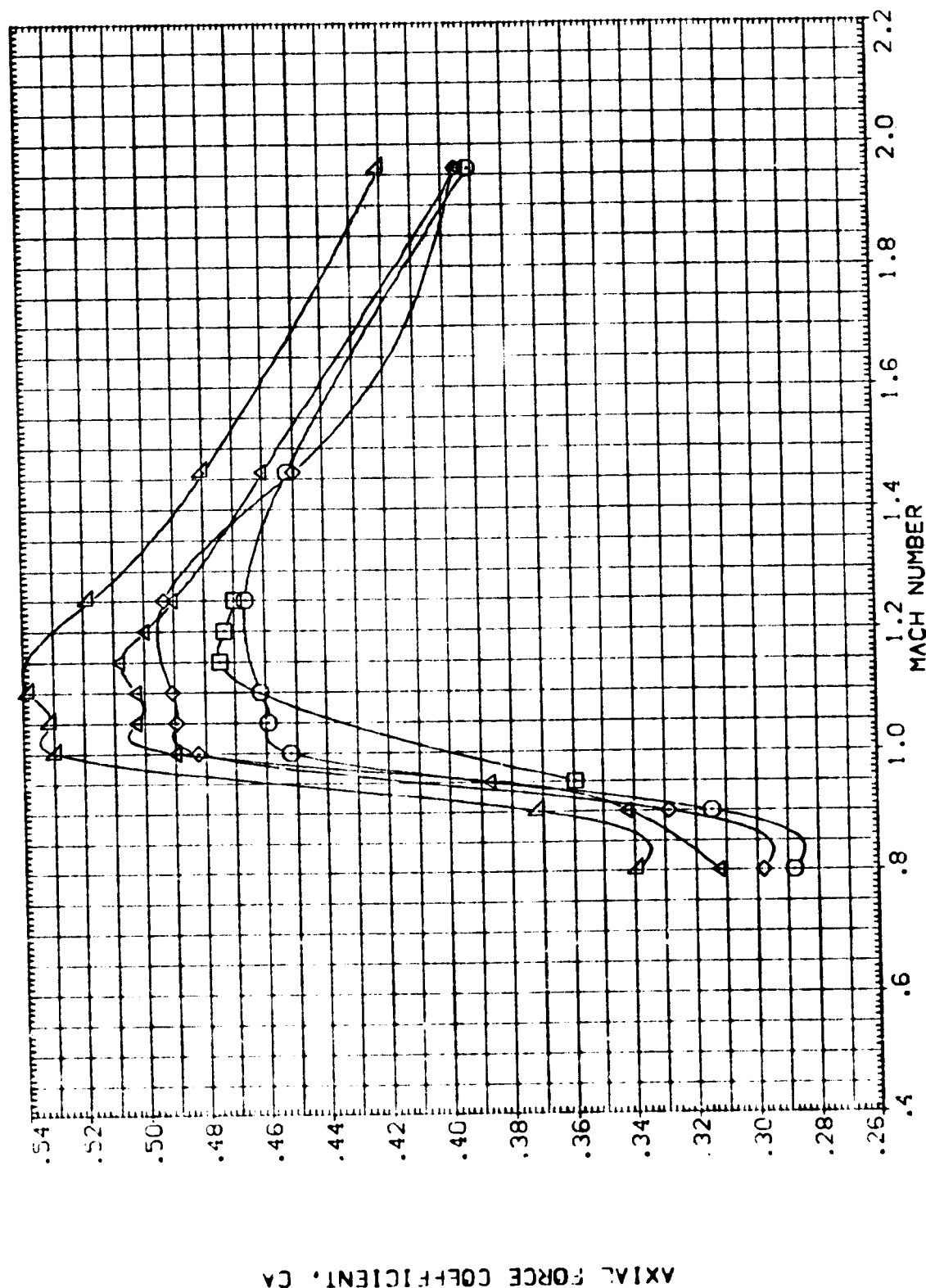


FIGURE 12 EFFECT OF FLIPPER DOOR DEFLECTION ON VEHICLE AXIAL FORCE (74-OTS)

(A) ALPHA = -6.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPDR
.000 .000 .000
.000 .000 .000
.000 .000 10.000
.000 .000 20.000
.000 .000 40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIR101) MSFC TW610 (IA-71) 74-OTS (STEEL)
(NIR107) MSFC TW610 (IA-71) 74-OTS Z10
(NIR108) MSFC TW610 (IA-71) 77-0, 74-TS
(NIR109) MSFC TW610 (IA-71) 74-OTS Z10
(NIR103) MSFC TW610 (IA-71) 74-OTS Z10

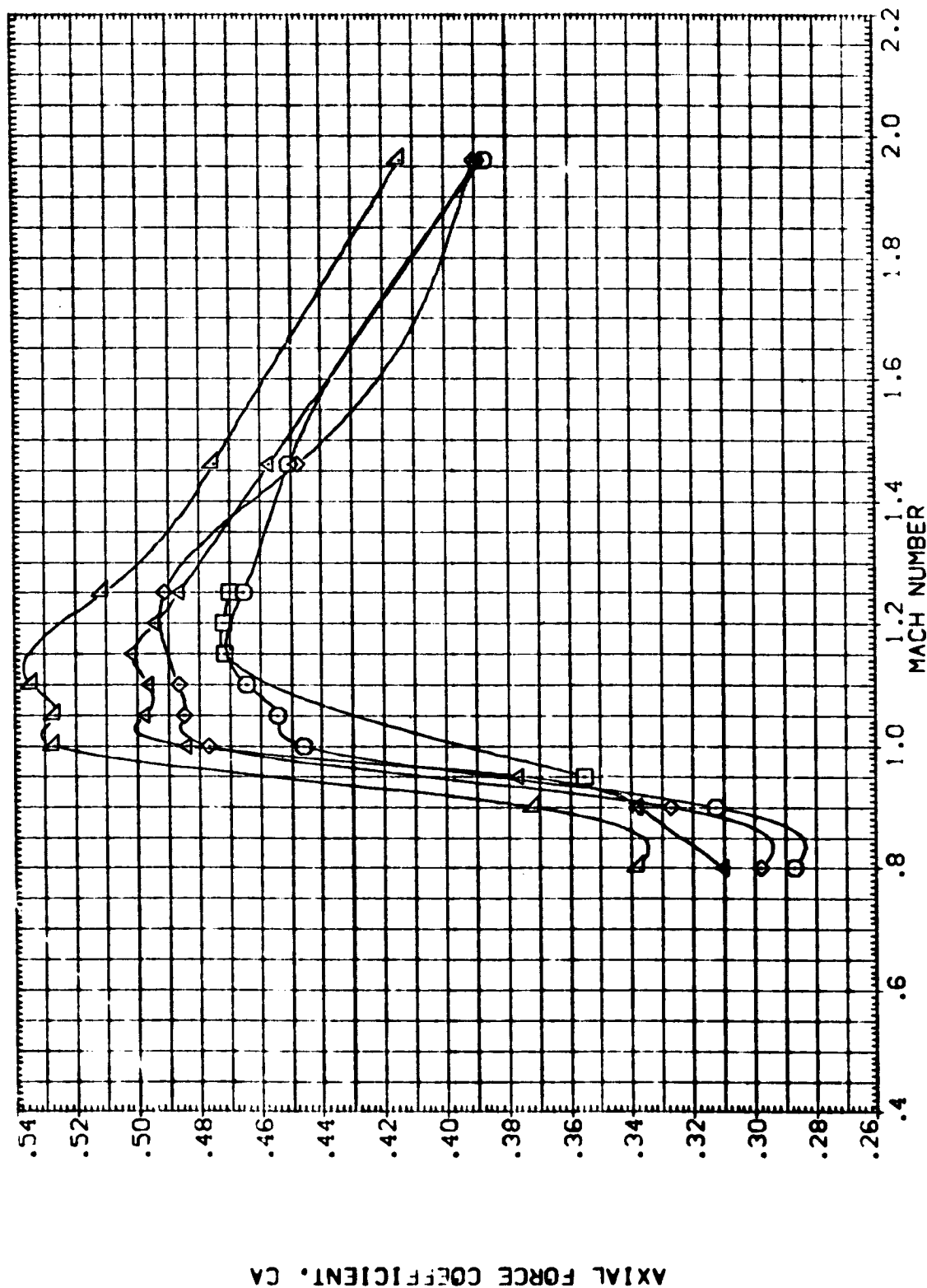


FIGURE 12 EFFECT OF FLIPPER DOOR DEFLECTION ON VEHICLE AXIAL FORCE (74-OTS)

(B) ALPHA = -4.00



E

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORB INC .000
FLIP DR .000
10.000
20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K101) MSC TWT610 (1A-71) 74-OTS (STEEL)
(N1K107) MSC TWT610 (1A-71) 74-OTS Z10
(N1K110) MSC TWT610 (1A-71) 77-OTS 74-S
(N1K103) MSC TWT610 (1A-71) 74-OTS Z10
(N1K103) MSC TWT610 (1A-71) 74-OTS Z10

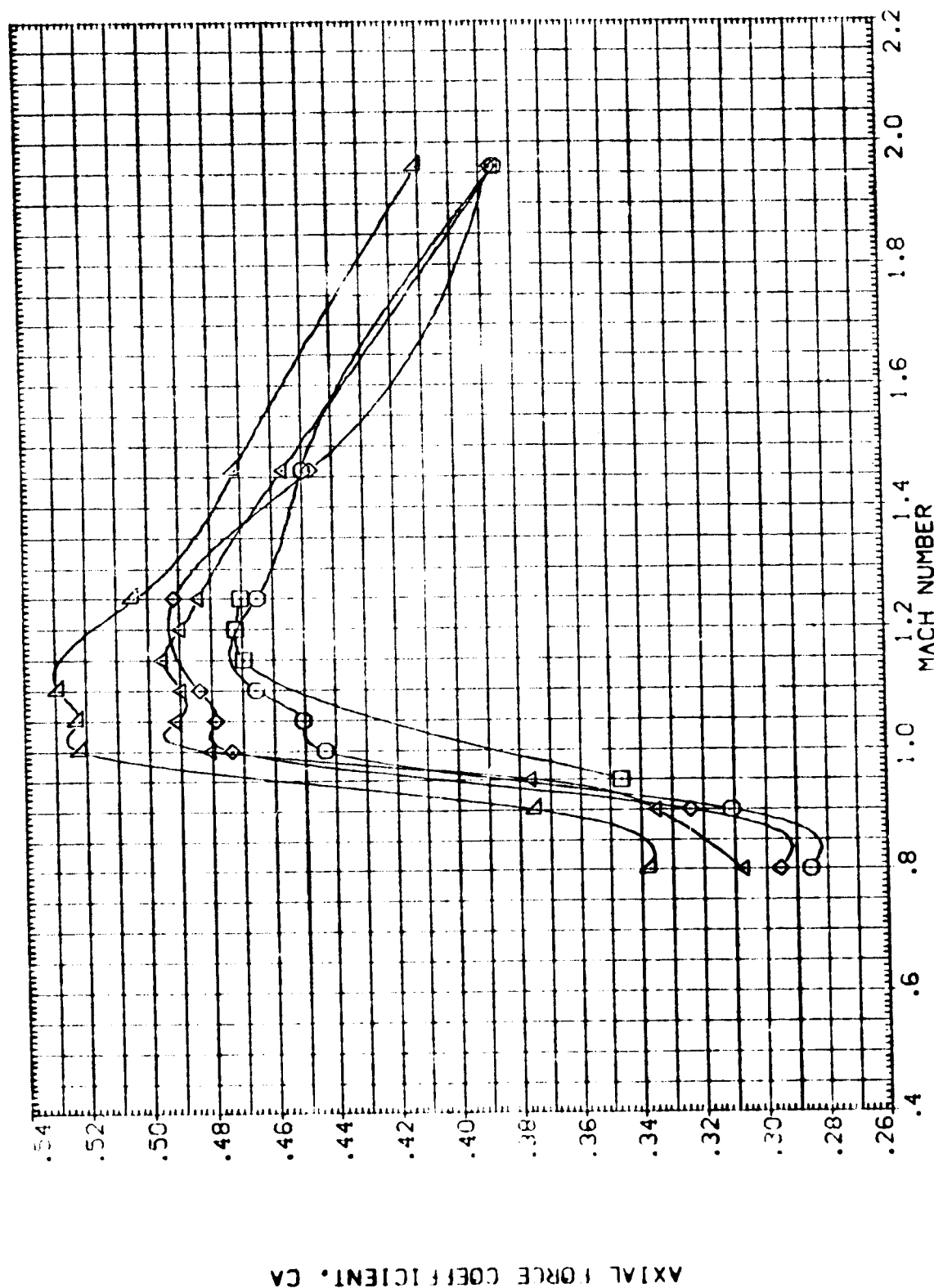


FIGURE 12 EFFECT OF FLIPPER DOOR DEFLECTION ON VEHICLE AXIAL FORCE (74-OTS)

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

BETA	ORBNIC	FLIPDR
.000	.000	.000
.000	.000	.000
.000	.000	10.000
.000	.000	20.000
.000	.000	40.000

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(N1K101)	MSFC TWT8:0 (IA-71) 74-QTS (STEEL)
(N1K107)	MSFC TWT8:0 (IA-71) 74-QTS Z10
(N1K110)	MSFC TWT8:0 (IA-71) 77-Q-74-TS
(N1K105)	MSFC TWT6:0 (IA-71) 74-QTS Z10
(N1P103)	MSFC TWT6:0 (IA-71) 74-QTS Z10

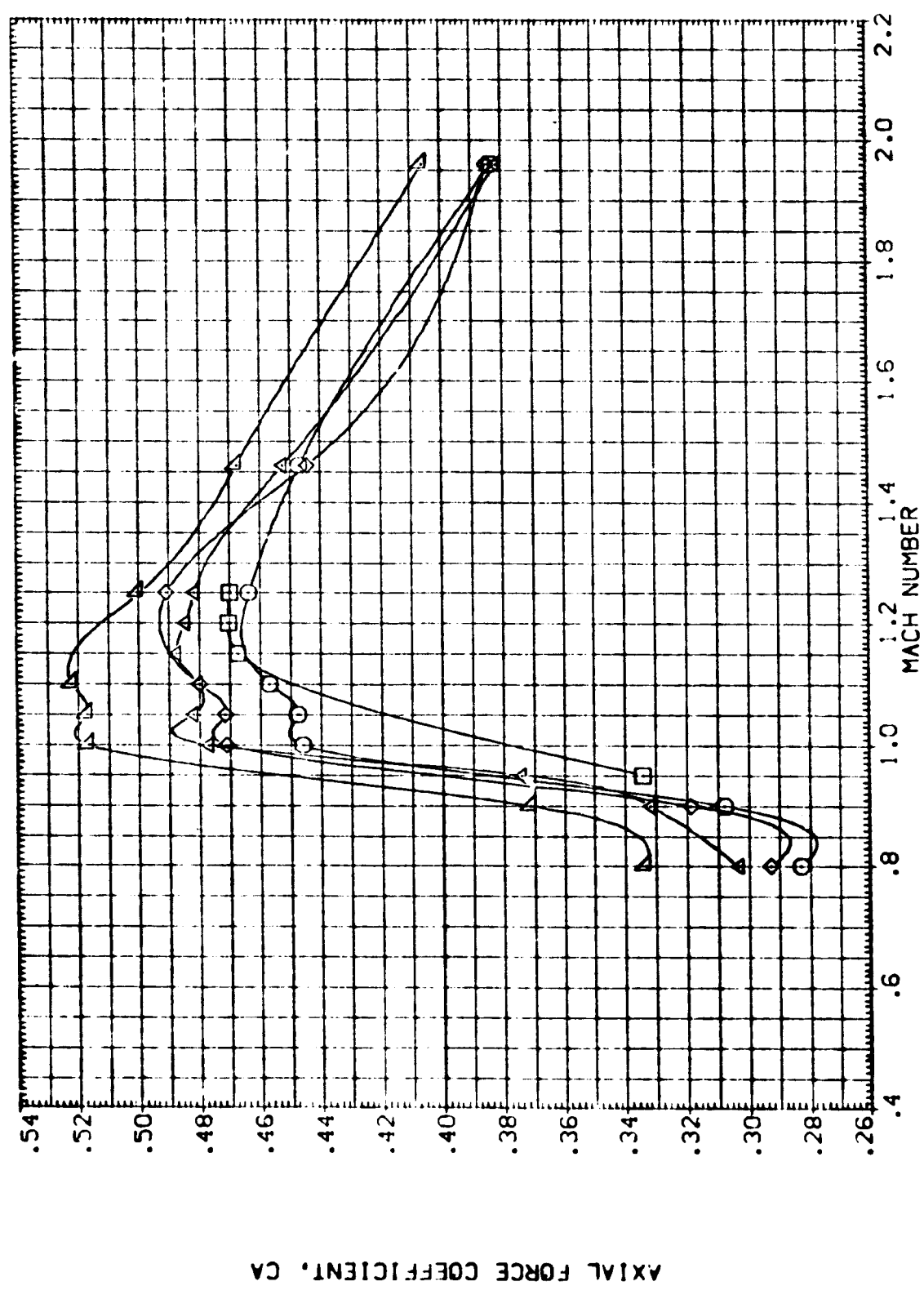


FIGURE 12 EFFECT OF FLIPPER DOOR DEFLECTION ON VEHICLE AXIAL FORCE (74-QTS)

(0) ALPHA = .00

C



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPDR
.000 .000 .000
.000 .000 .000
.000 10.000 .000
.000 .000 .000
.000 40.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
MSFC TWT610 (1A-71) 74-OTS (STEEL)
MSFC TWT610 (1A-71) 74-OTS Z10
MSFC TWT610 (1A-71) 77-OTS 74-TS
MSFC TWT610 (1A-71) 74-OTS Z10
MSFC TWT610 (1A-71) 74-OTS Z10

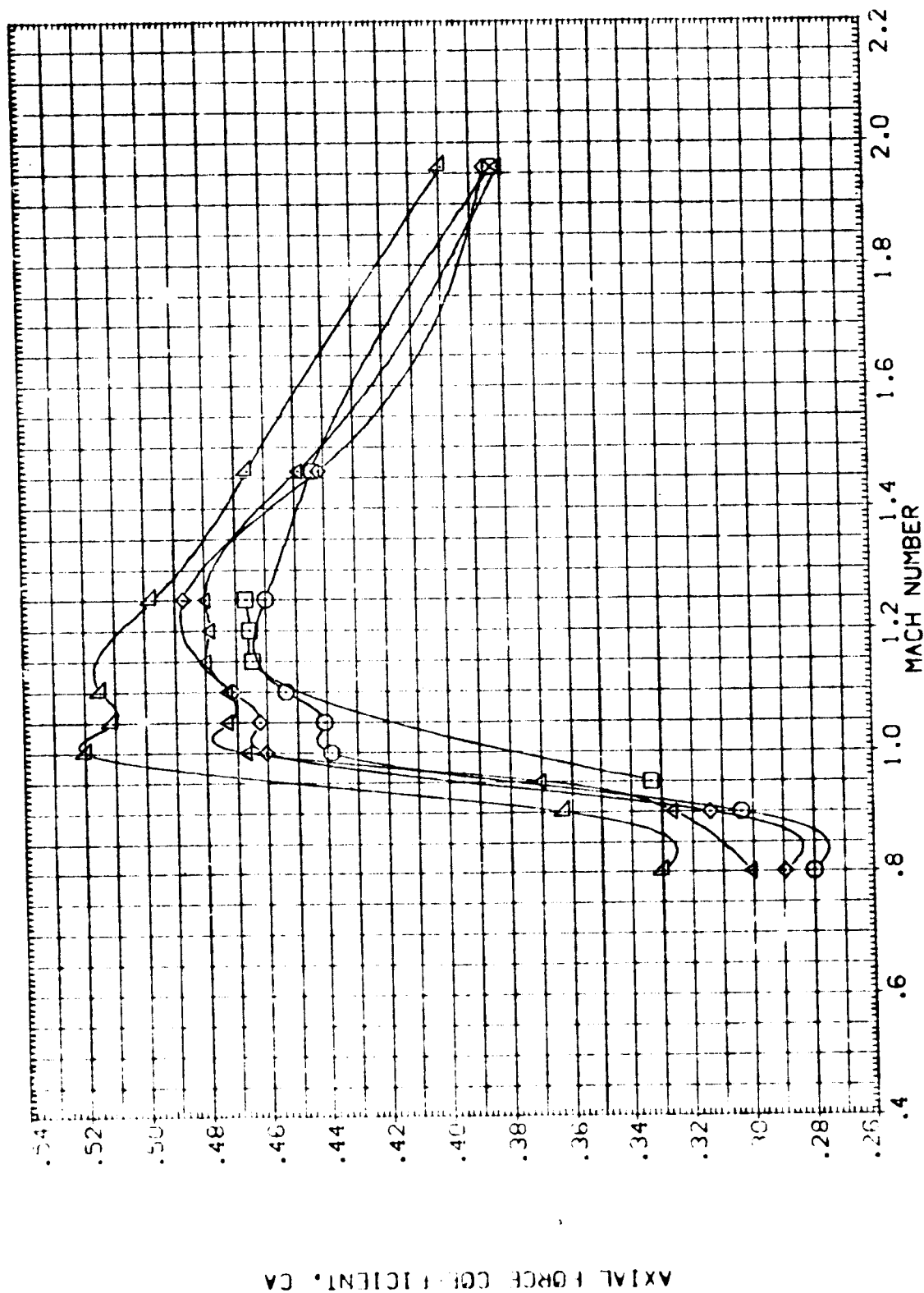


FIGURE 12 EFFECT OF FLIPPER DOOR DEFLECTION ON VEHICLE AXIAL FORCE (74-OTS)

(E) ALPHA = 2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA	ORBITING	FLIPPER
.000	.000	.000
.000	.000	.000
.000	.000	10.000
.000	.000	20.000
.000	.000	40.000

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(N1K101)	MSFC TW610 (1A-71) 74-OTS (STEEL)
(N1K102)	MSFC TW610 (1A-71) 74-OTS Z10
(N1K103)	MSFC TW610 (1A-71) 77-6.74-TS
(N1K104)	MSFC TW610 (1A-71) 74-OTS Z10
(N1K105)	MSFC TW610 (1A-71) 74-OTS Z10

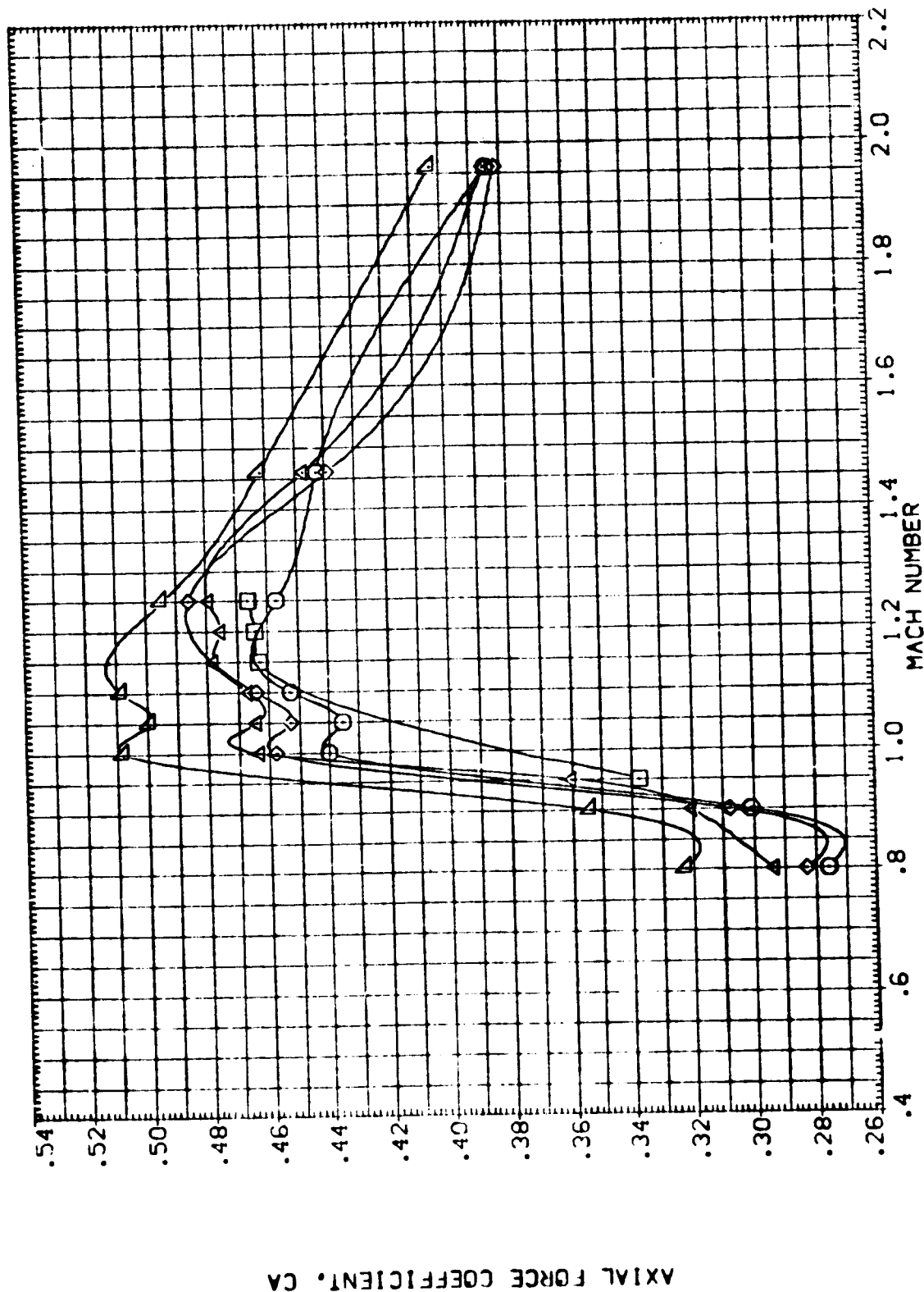


FIGURE 12 EFFECT OF FLIPPER DOOR DEFLECTION ON VEHICLE AXIAL FORCE (74-OTS)

(F)ALPHA = 4.00



C

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPOR
.000 .000 .000
.000 .000 .000
.000 .000 10.000
.000 .000 20.000
.000 .000 40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K101) MSFC TW1610 (1A-71) 74-OTS (STEEL)
(N1K107) MSFC TW1610 (1A-71) 74-OTS Z10
(N1K110) MSFC TW1610 (1A-71) 77-0.74-OTS
(N1K105) MSFC TW1610 (1A-71) 74-OTS Z10
(N1K103) MSFC TW1610 (1A-71) 74-OTS Z10

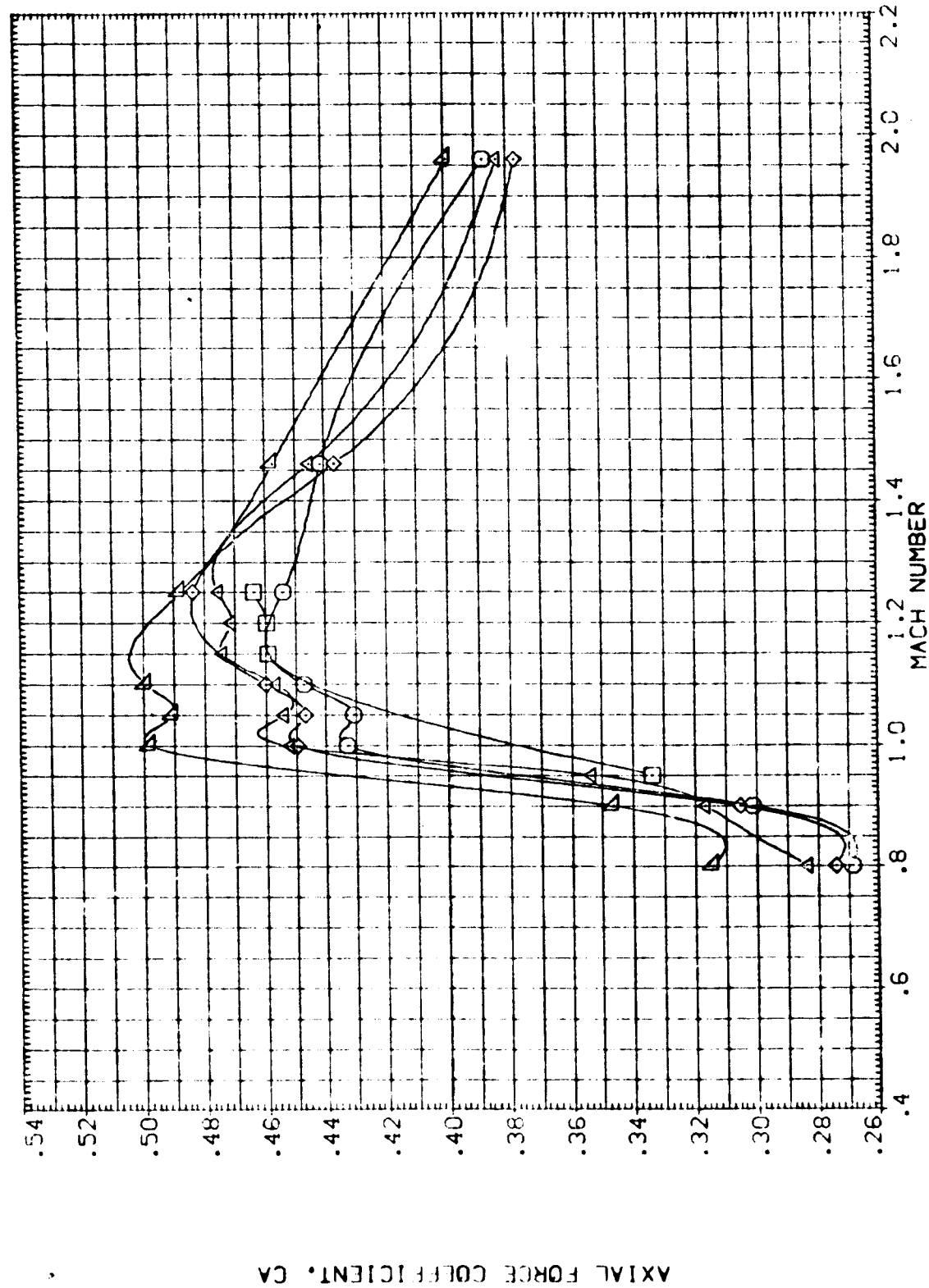


FIGURE 12 EFFECT OF FLIPPER DOOR DEFLECTION ON VEHICLE AXIAL FORCE (74-OTS)

(G)ALPHA = 5.70

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION
NK1111	TSFC	TS16:0 (A-7)
NK1112	TSFC	TS16:0 (A-7)
NK1113	TSFC	TS16:0 (A-7)
NK1114	TSFC	TS16:0 (A-7)
NK1115	TSFC	TS16:0 (A-7)
NK1116	TSFC	TS16:0 (A-7)
NK1117	TSFC	TS16:0 (A-7)
NK1118	TSFC	TS16:0 (A-7)
NK1119	TSFC	TS16:0 (A-7)
NK1120	TSFC	TS16:0 (A-7)
NK1121	TSFC	TS16:0 (A-7)
NK1122	TSFC	TS16:0 (A-7)
NK1123	TSFC	TS16:0 (A-7)
NK1124	TSFC	TS16:0 (A-7)
NK1125	TSFC	TS16:0 (A-7)
NK1126	TSFC	TS16:0 (A-7)
NK1127	TSFC	TS16:0 (A-7)
NK1128	TSFC	TS16:0 (A-7)
NK1129	TSFC	TS16:0 (A-7)
NK1130	TSFC	TS16:0 (A-7)
NK1131	TSFC	TS16:0 (A-7)
NK1132	TSFC	TS16:0 (A-7)
NK1133	TSFC	TS16:0 (A-7)
NK1134	TSFC	TS16:0 (A-7)
NK1135	TSFC	TS16:0 (A-7)
NK1136	TSFC	TS16:0 (A-7)
NK1137	TSFC	TS16:0 (A-7)
NK1138	TSFC	TS16:0 (A-7)
NK1139	TSFC	TS16:0 (A-7)
NK1140	TSFC	TS16:0 (A-7)
NK1141	TSFC	TS16:0 (A-7)
NK1142	TSFC	TS16:0 (A-7)
NK1143	TSFC	TS16:0 (A-7)
NK1144	TSFC	TS16:0 (A-7)
NK1145	TSFC	TS16:0 (A-7)
NK1146	TSFC	TS16:0 (A-7)
NK1147	TSFC	TS16:0 (A-7)
NK1148	TSFC	TS16:0 (A-7)
NK1149	TSFC	TS16:0 (A-7)
NK1150	TSFC	TS16:0 (A-7)
NK1151	TSFC	TS16:0 (A-7)
NK1152	TSFC	TS16:0 (A-7)
NK1153	TSFC	TS16:0 (A-7)
NK1154	TSFC	TS16:0 (A-7)
NK1155	TSFC	TS16:0 (A-7)
NK1156	TSFC	TS16:0 (A-7)
NK1157	TSFC	TS16:0 (A-7)
NK1158	TSFC	TS16:0 (A-7)
NK1159	TSFC	TS16:0 (A-7)
NK1160	TSFC	TS16:0 (A-7)
NK1161	TSFC	TS16:0 (A-7)
NK1162	TSFC	TS16:0 (A-7)
NK1163	TSFC	TS16:0 (A-7)
NK1164	TSFC	TS16:0 (A-7)
NK1165	TSFC	TS16:0 (A-7)
NK1166	TSFC	TS16:0 (A-7)
NK1167	TSFC	TS16:0 (A-7)
NK1168	TSFC	TS16:0 (A-7)
NK1169	TSFC	TS16:0 (A-7)
NK1170	TSFC	TS16:0 (A-7)
NK1171	TSFC	TS16:0 (A-7)
NK1172	TSFC	TS16:0 (A-7)
NK1173	TSFC	TS16:0 (A-7)
NK1174	TSFC	TS16:0 (A-7)
NK1175	TSFC	TS16:0 (A-7)
NK1176	TSFC	TS16:0 (A-7)
NK1177	TSFC	TS16:0 (A-7)
NK1178	TSFC	TS16:0 (A-7)
NK1179	TSFC	TS16:0 (A-7)
NK1180	TSFC	TS16:0 (A-7)
NK1181	TSFC	TS16:0 (A-7)
NK1182	TSFC	TS16:0 (A-7)
NK1183	TSFC	TS16:0 (A-7)
NK1184	TSFC	TS16:0 (A-7)
NK1185	TSFC	TS16:0 (A-7)
NK1186	TSFC	TS16:0 (A-7)
NK1187	TSFC	TS16:0 (A-7)
NK1188	TSFC	TS16:0 (A-7)
NK1189	TSFC	TS16:0 (A-7)
NK1190	TSFC	TS16:0 (A-7)
NK1191	TSFC	TS16:0 (A-7)
NK1192	TSFC	TS16:0 (A-7)
NK1193	TSFC	TS16:0 (A-7)
NK1194	TSFC	TS16:0 (A-7)
NK1195	TSFC	TS16:0 (A-7)
NK1196	TSFC	TS16:0 (A-7)
NK1197	TSFC	TS16:0 (A-7)
NK1198	TSFC	TS16:0 (A-7)
NK1199	TSFC	TS16:0 (A-7)
NK1200	TSFC	TS16:0 (A-7)
NK1201	TSFC	TS16:0 (A-7)
NK1202	TSFC	TS16:0 (A-7)
NK1203	TSFC	TS16:0 (A-7)
NK1204	TSFC	TS16:0 (A-7)
NK1205	TSFC	TS16:0 (A-7)
NK1206	TSFC	TS16:0 (A-7)
NK1207	TSFC	TS16:0 (A-7)
NK1208	TSFC	TS16:0 (A-7)
NK1209	TSFC	TS16:0 (A

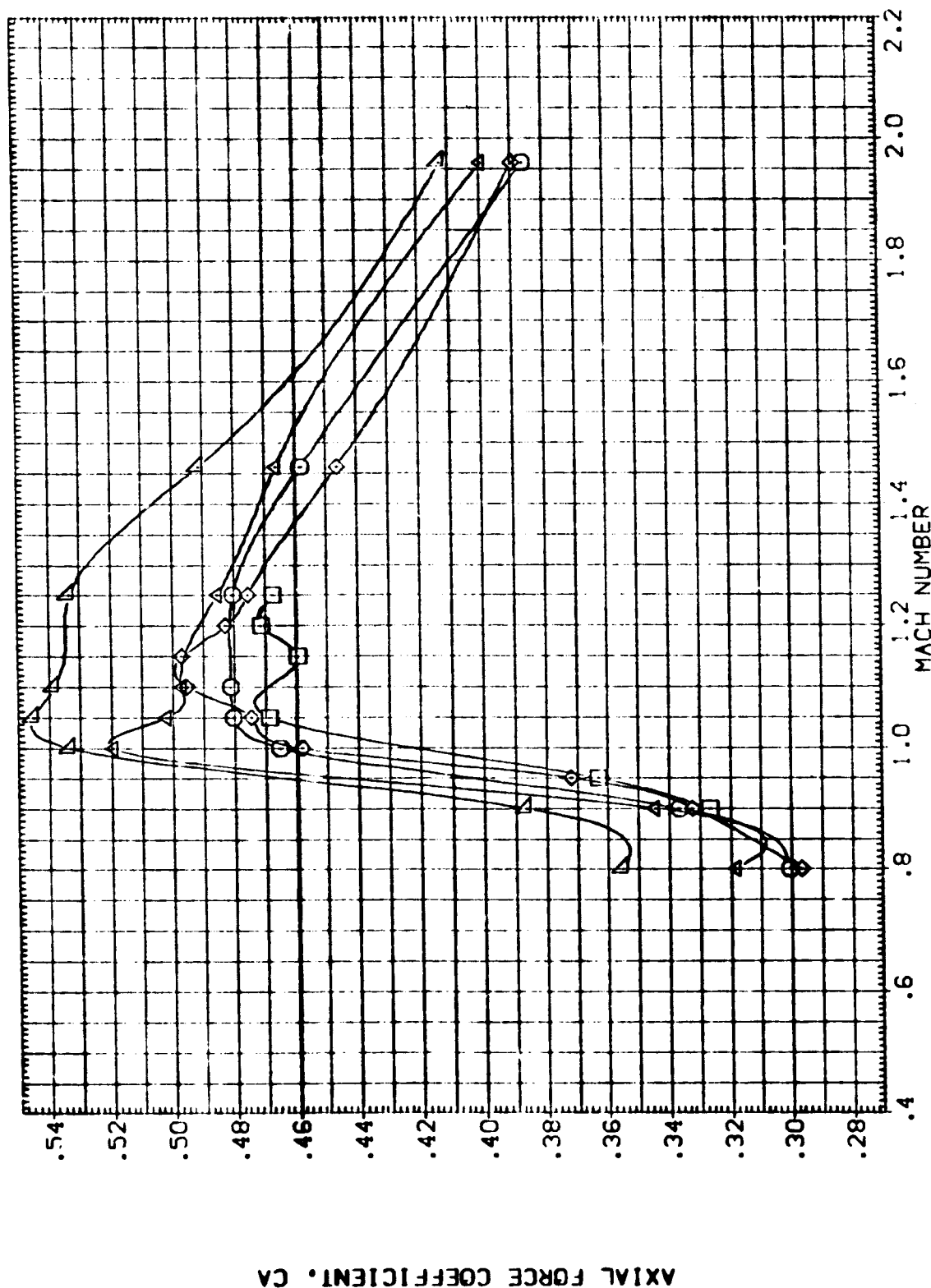


FIGURE 13 EFFECT OF FLIPPER DOOR DEFLECTION ON VEHICLE AXIAL FORCE (77-0.74-TS)

$$(\Delta)\alpha = -6.00$$

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORB INC FLIPOR
.000 .000 .000
.000 .000 .000
.000 .000 .000
.000 .000 .000
.000 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K111) MSFC 1A7610 (1A-71) 77-0.74-TS
(N1K112) MSFC 1A7610 (1A-71) 77-0.74-TS
(N1K113) MSFC 1A7610 (1A-71) 77-0.74-TS
(N1K114) MSFC 1A7610 (1A-71) 77-0.74-TS
(N1K115) MSFC 1A7610 (1A-71) 77-0.74-TS
(N1K116) MSFC 1A7610 (1A-71) 77-0.74-TS
(N1K117) MSFC 1A7610 (1A-71) 77-0.74-TS
(N1K118) MSFC 1A7610 (1A-71) 77-0.74-TS
(N1K119) MSFC 1A7610 (1A-71) 77-0.74-TS
(N1K120) MSFC 1A7610 (1A-71) 77-0.74-TS

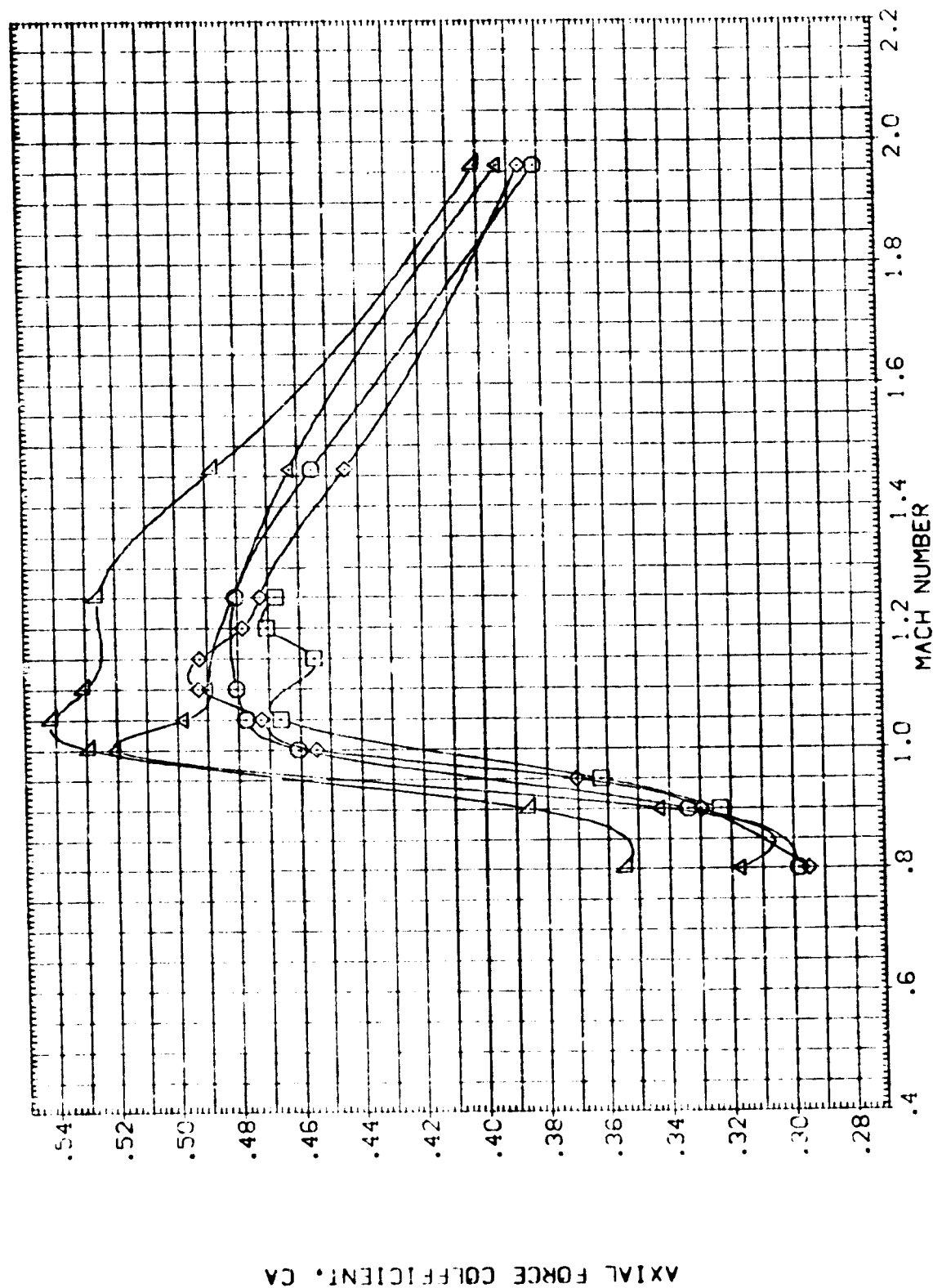


FIGURE 13 EFFECT OF FLIPPER DOOR DEFLECTION ON VEHICLE AXIAL FORCE (77-0.74-TS)

(B) ALPHA = -4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA	ORBINC	FLIPDR
.000	.000	.000
.000	.000	.000
.000	.000	10.000
.000	.000	20.000
.000	.000	40.000

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(N1K111)	MSFC TWT610 (1A-71) 77-0.74-TS
(N1K112)	MSFC TWT610 (1A-71) 77-0.74-TS
(N1K119)	MSFC TWT610 (1A-71) 77-0.74-TS
(N1K116)	MSFC TWT610 (1A-71) 77-0.74-TS
(N1K114)	MSFC TWT610 (1A-71) 77-0.74-TS

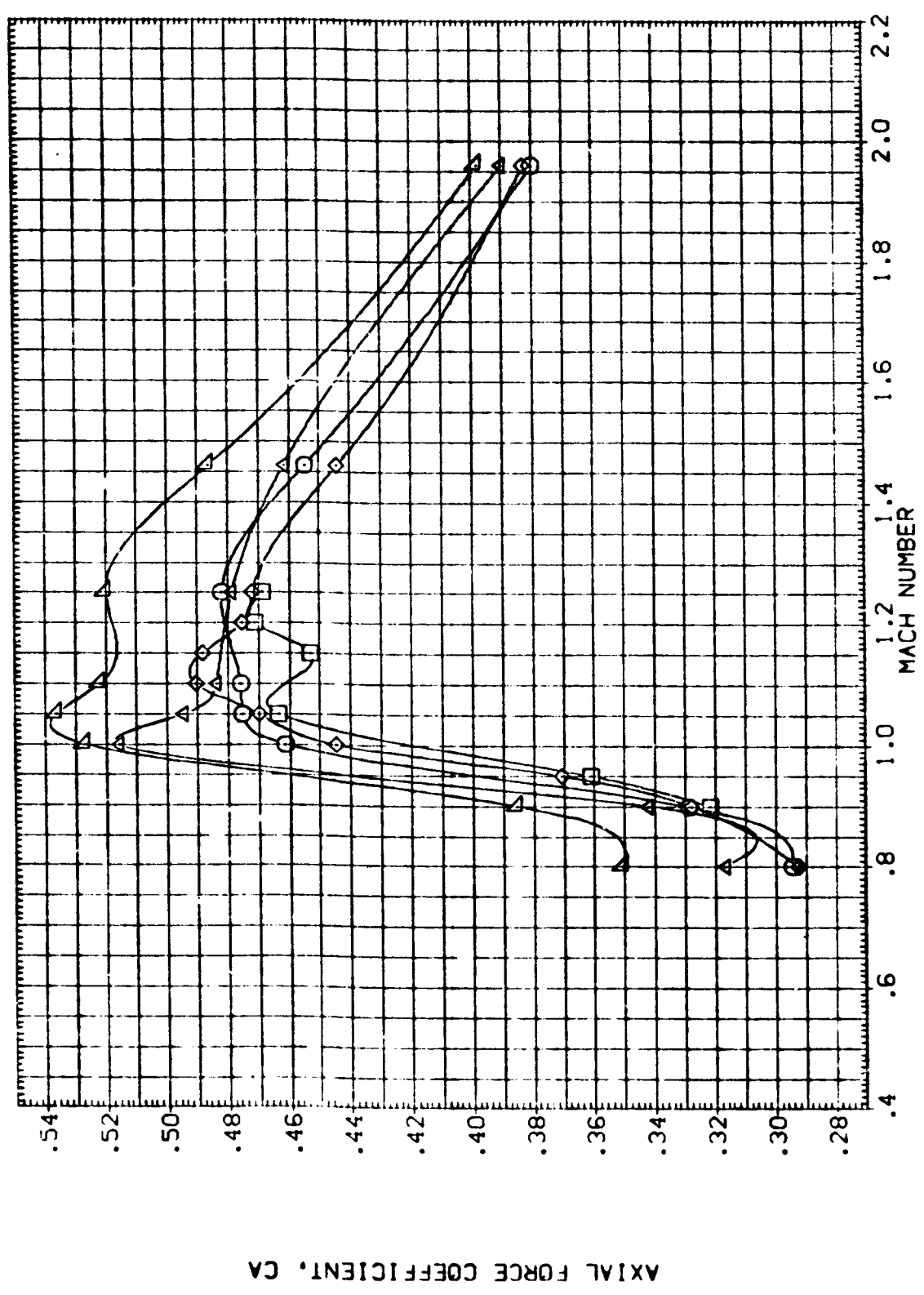


FIGURE 13 EFFECT OF FLIPPER DOOR DEFLECTION ON VEHICLE AXIAL FORCE (77-0.74-TS)

(C) ALPHA = -2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000 .000 .000
ORBINC .000 .000 .000 .000
FLIPDR .000 .000 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
MSFC TWT610 (A-71) 77-0.74-TS
MSFC TWT610 (A-71) 77-0.74-TS
MSFC TWT610 (A-71) 77-0.74-TS
MSFC TWT610 (A-71) 77-0.74-TS
MSFC TWT610 (A-71) 77-0.74-TS
MSFC TWT610 (A-71) 77-0.74-TS

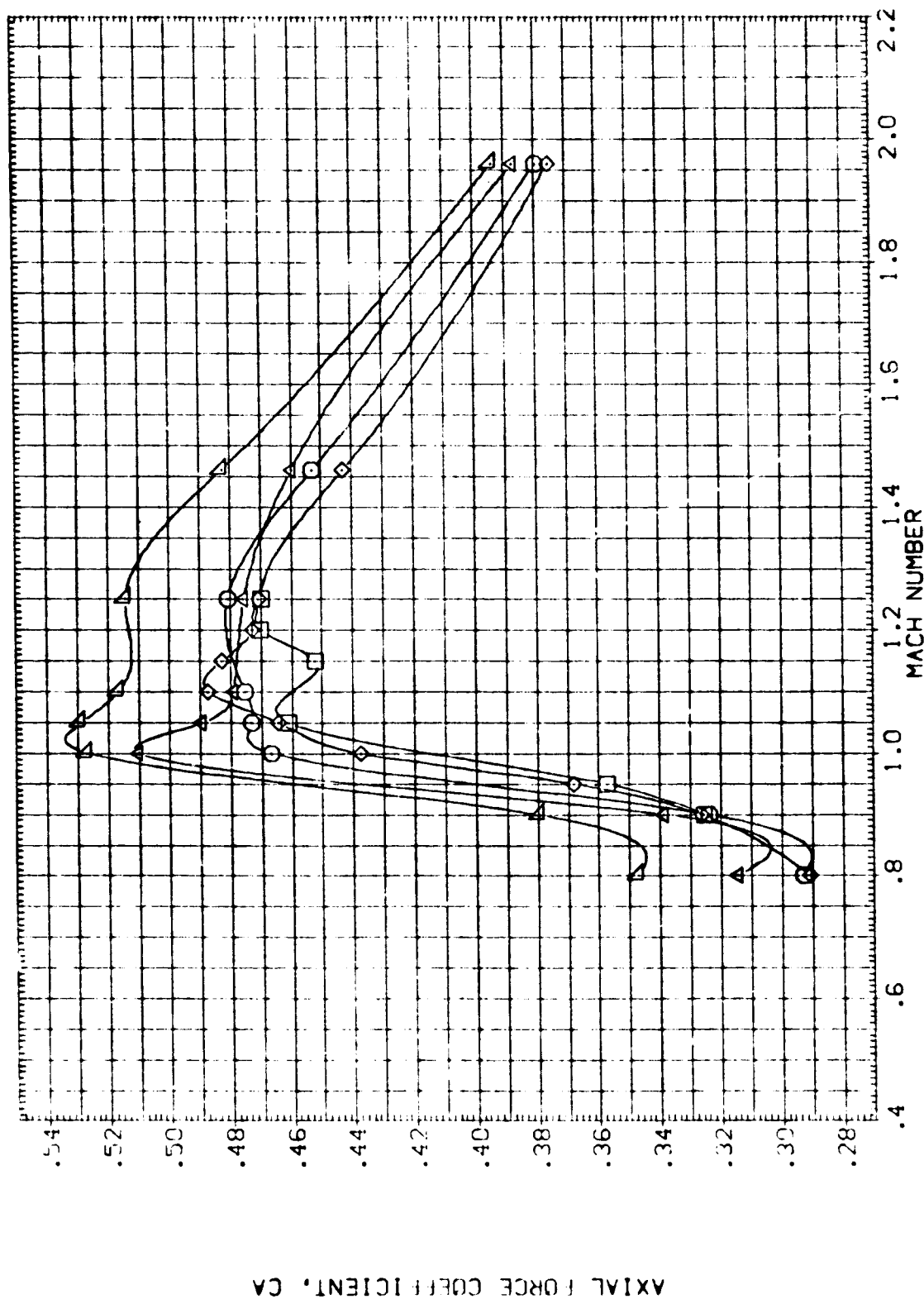


FIGURE 13 EFFECT OF FLIPPER DOOR DEFLECTION ON VEHICLE AXIAL FORCE (77-0.74-TS)

(D) ALPHA = .00

	DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(N)K(11)	MSC	TW610 {A-71} 77-0-74-TS
(N)K(12)	MSC	TW610 {A-71} 77-0-74-TS
(N)K(13)	MSC	TW610 {A-71} 77-0-74-TS Z10
(N)K(14)	MSC	TW610 {A-71} 77-0-74-TS Z10
(N)K(15)	MSC	TW610 {A-71} 77-0-74-TS Z10

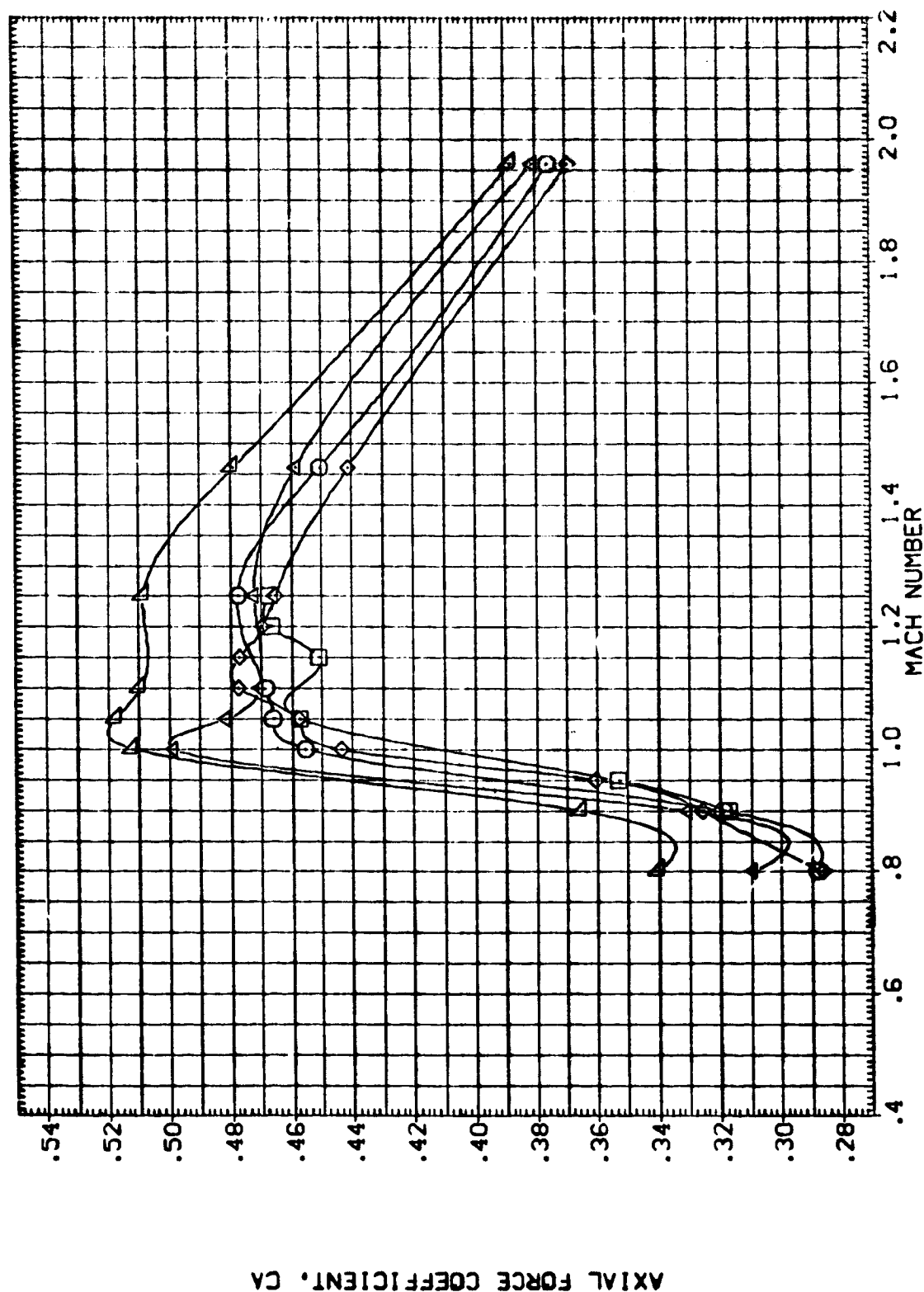


FIGURE 13 EFFECT OF FLIPPER DOOR DEFLECTION ON VEHICLE AXIAL FORCE (77-0.74-TS)

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$$(\epsilon)_{\text{ALPHA}} = 2.00$$



BETA	ORB INC	FLIPDR
.000	.000	.000
.000	.000	.000
.000	.000	10.000
.000	.000	20.000
.000	.000	40.000

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION
(N1K111)	M5FC TV1610 (A-71)	77-0,74-TS
(N1K112)	M5FC TV1610 (A-71)	77-0,74-TS
(N1K119)	M5FC TV1610 (A-71)	77-0,74-TS Z10
(N1K115)	M5FC TV1610 (A-71)	77-0,74-TS Z10
(N1K114)	M5FC TV1610 (A-71)	77-0,74-TS Z10

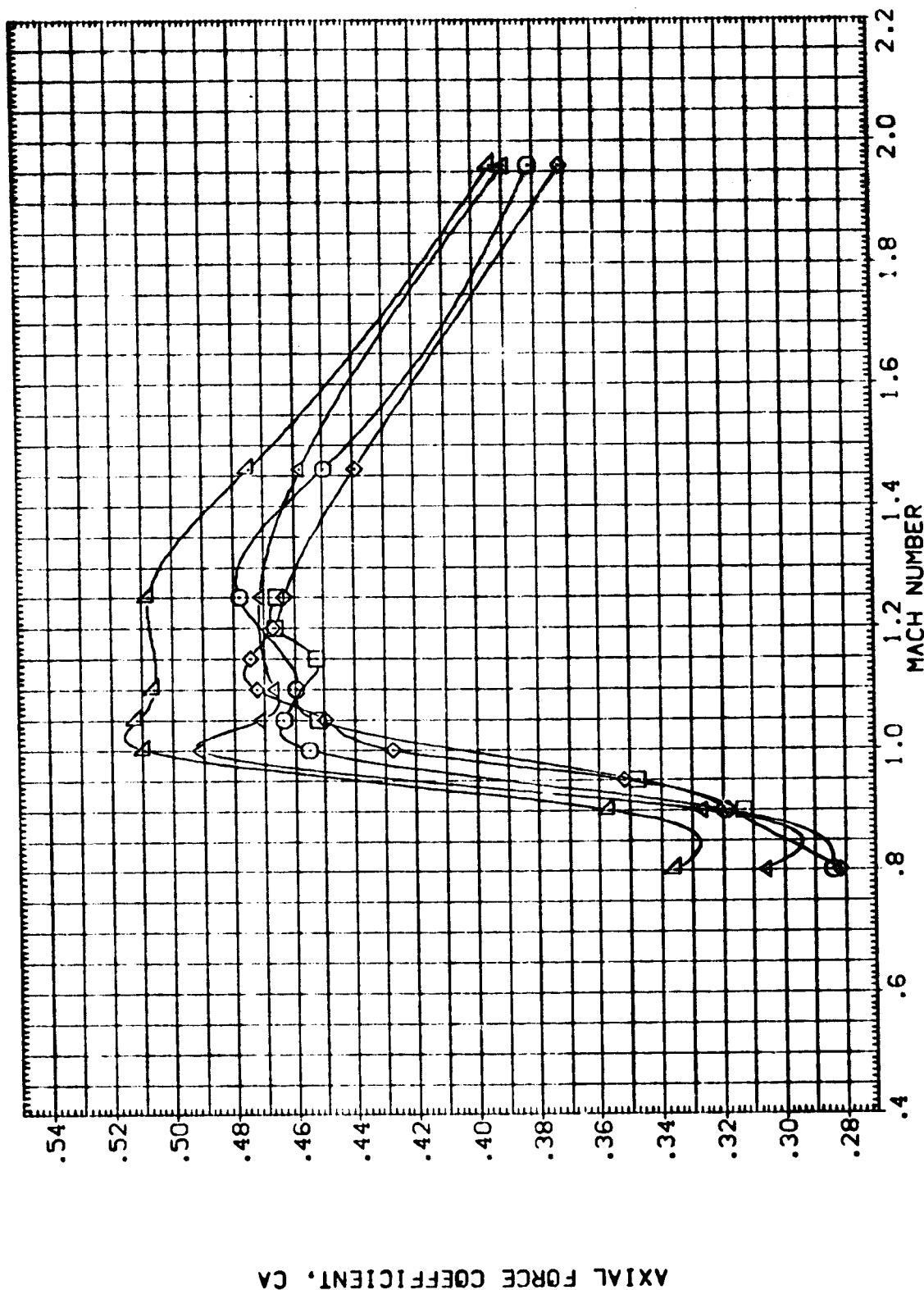


FIGURE 13 EFFECT OF FLIPPER DOOR DEFLECTION ON VEHICLE AXIAL FORCE (77-0.74-TS)

$$(F)_{\text{ALPHA}} = 4.00$$

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPDR .000
10.000
20.000
40.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K111) MSFC TUT610 (1A-71) 77-0.74-TS
(N1K112) MSFC TUT610 (1A-71) 77-0.74-TS
(N1K113) MSFC TUT610 (1A-71) 77-0.74-TS
(N1K114) MSFC TUT610 (1A-71) 77-0.74-TS
Z10
Z10
Z10

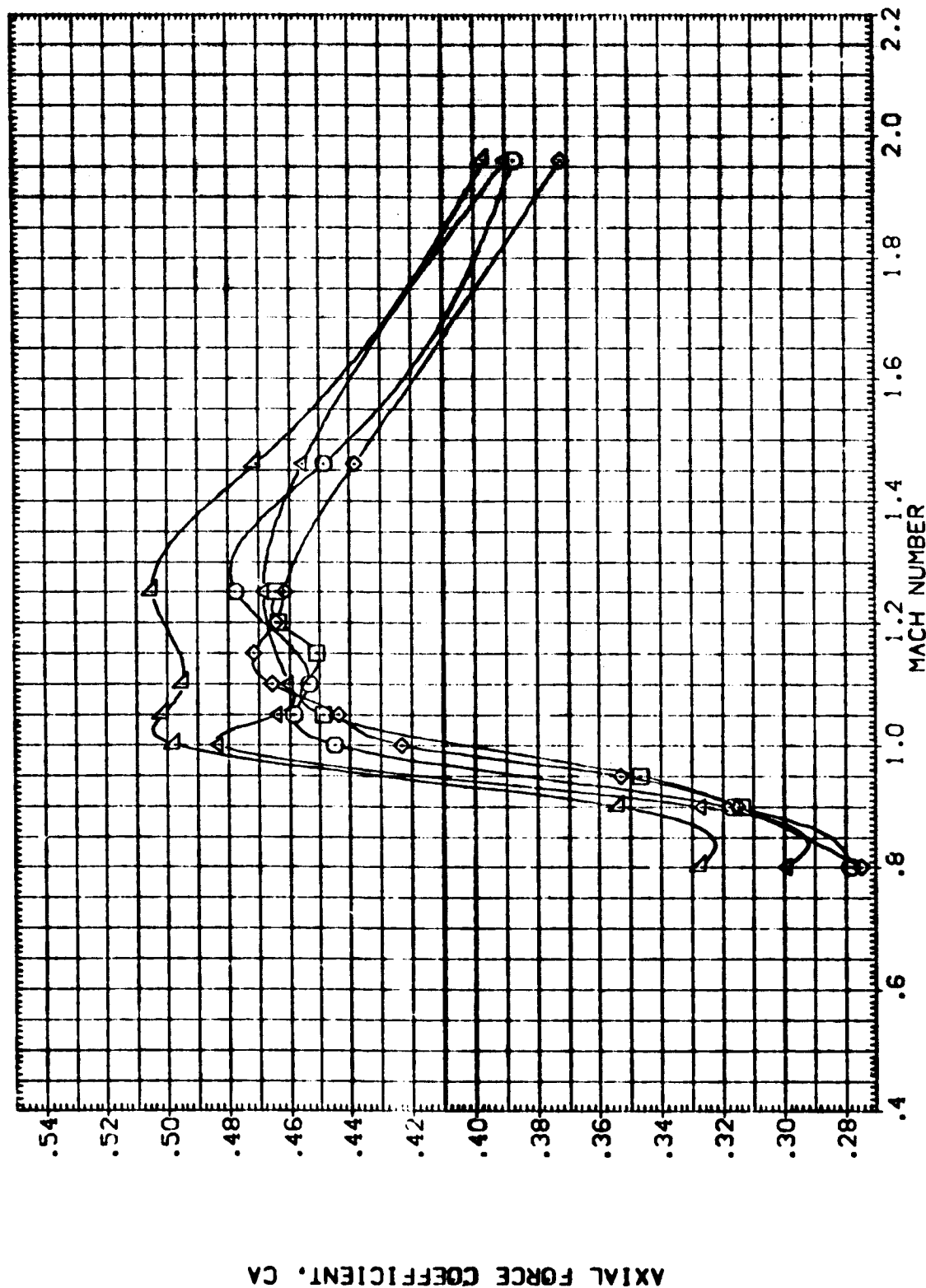


FIGURE 13 EFFECT OF FLIPPER DOOR DEFLECTION ON VEHICLE AXIAL FORCE (77-0.74-TS)

(G)ALPHA = 5.70

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

BETA .000 .000 .000 .000
ORBINC .000 .000 .000 .000
FLIPOR 10.000 10.000 10.000 10.000

DATA SET SYMBOL (NIK19) (NIK20)
CONFIGURATION DESCRIPTION
MSEC TV1610 (1A-71) 77-0.74-TS Z10
MSEC TV1610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

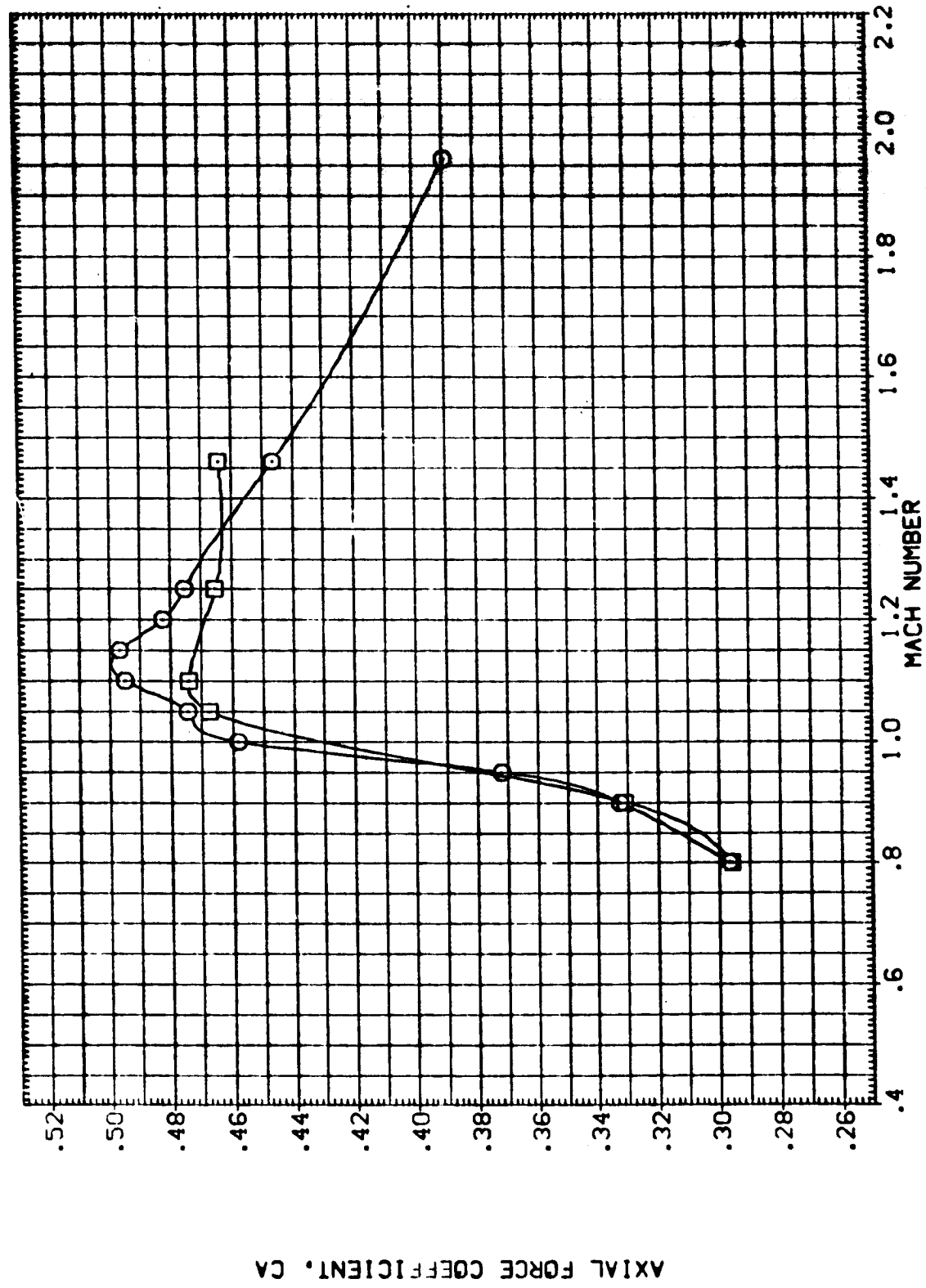


FIGURE 14 EFFECT OF ORBITER INCIDENCE ON VEHICLE AXIAL FORCE

(A) ALPHA = -6.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPDR 10.000
-3.000

DATA SET SYMBOL (N1K119)
CONFIGURATION DESCRIPTION MSFC TWT610 (1A-71) 77-0.74-TS Z10
(N1K120) MSFC TWT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

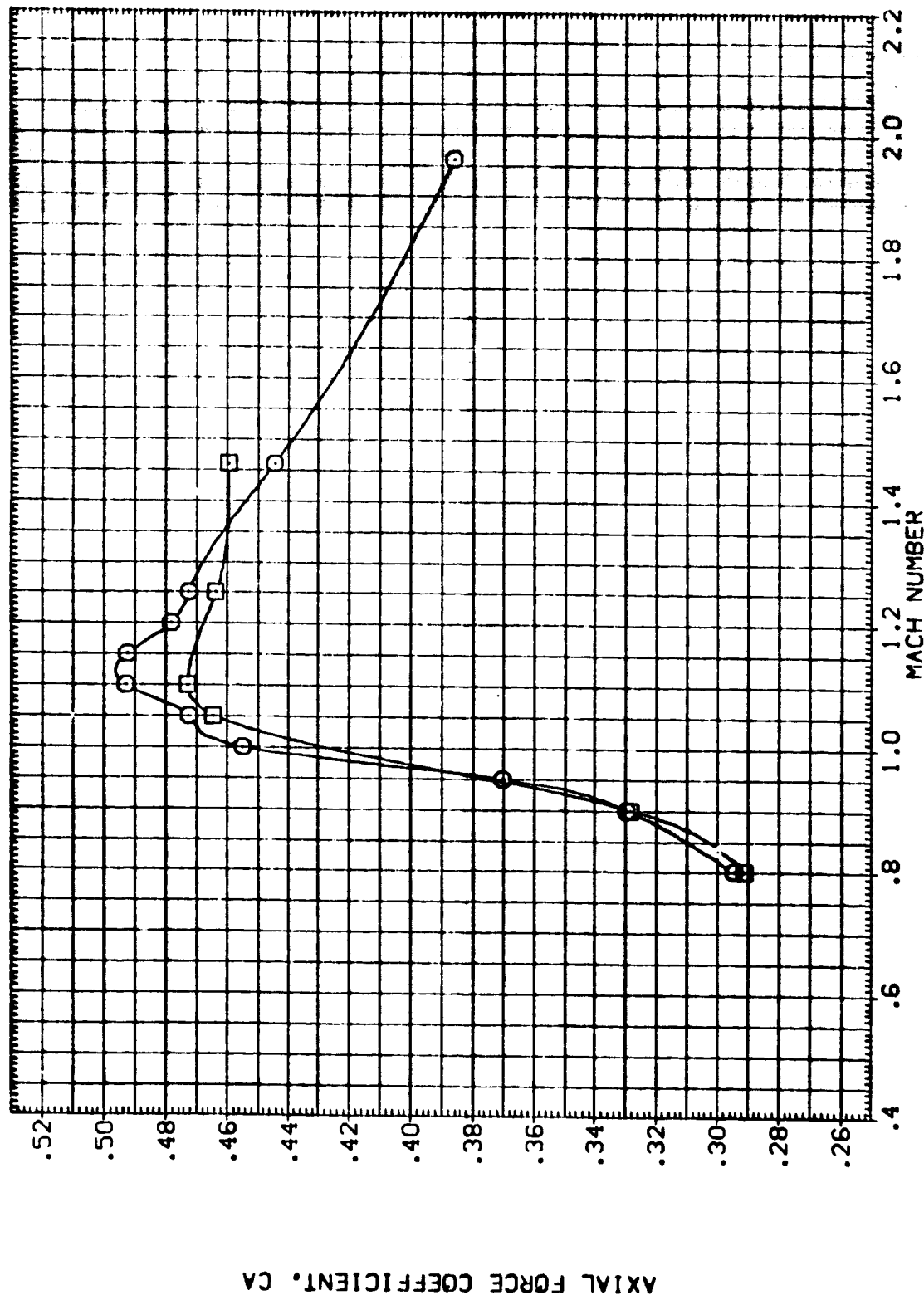


FIGURE 14 EFFECT OF ORBITER INCIDENCE ON VEHICLE AXIAL FORCE

(B) ALPHA = -4.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA FLIPOR
.000 10.000
-3.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K119) MSFC TWT610 (1A-71) 77-0.74-TS Z10
(N1K120) MSFC TWT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

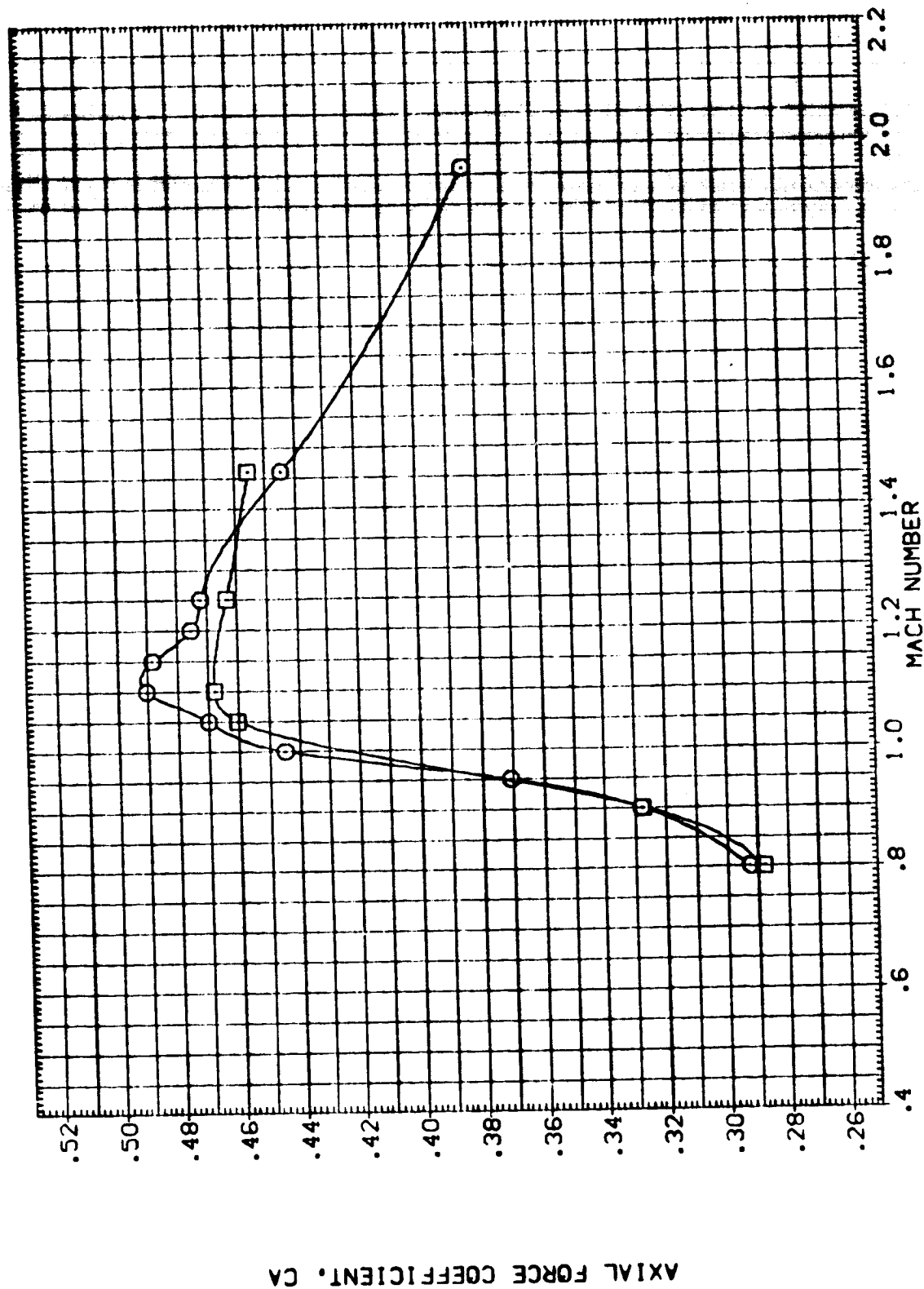


FIGURE 14 EFFECT OF ORBITER INCIDENCE ON VEHICLE AXIAL FORCE

(C)ALPHA = -2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPOR
.000 .000 10.000
.000 -3.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIR119) MSFC TWT610 (1A-71) 77-0.74-TS Z10
(NIR120) MSFC TWT610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

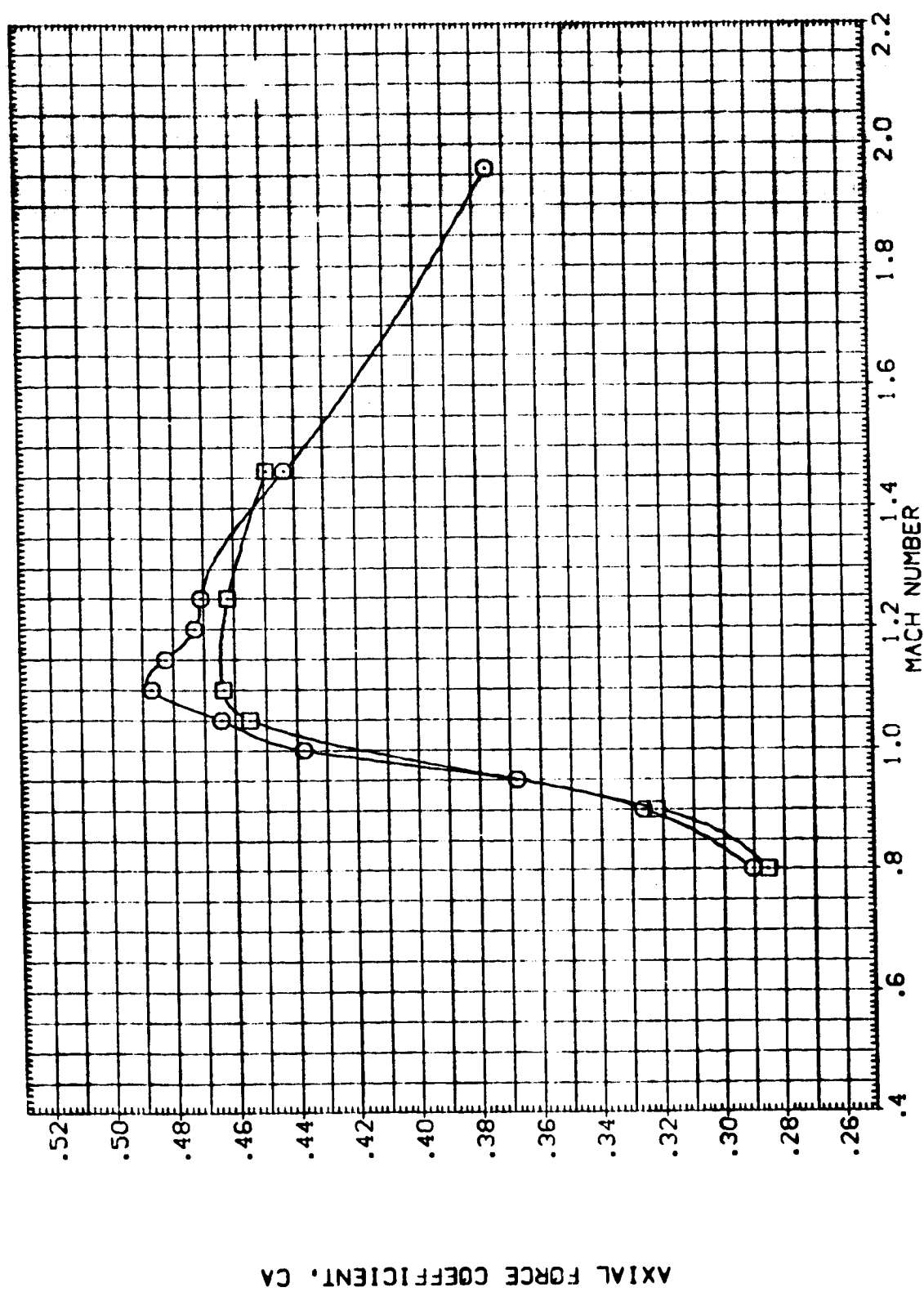


FIGURE 14 EFFECT OF ORBITER INCIDENCE ON VEHICLE AXIAL FORCE

(O) ALPHA = .00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPOR
.000 .000 10.000
-3.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K119) B MSFC TWT610 (1A-71) 77-8-74-TS Z10
(N1K120) B MSFC TWT610 (1A-71) 77-8-74-TS Z10 (INCIDENCE)

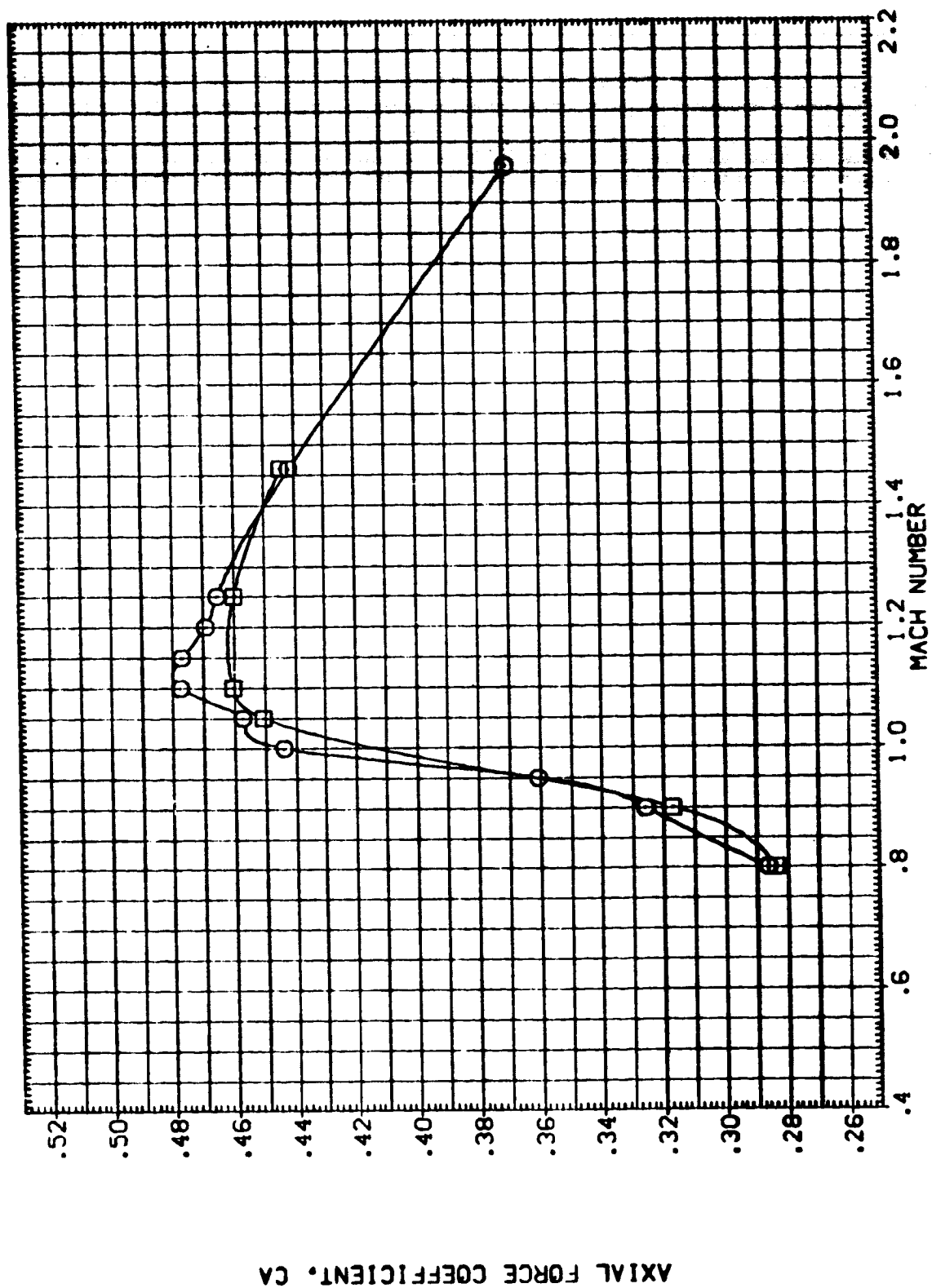


FIGURE 14 EFFECT OF ORBITER INCIDENCE ON VEHICLE AXIAL FORCE

(E)ALPHA = 2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPOR 10.000

DATA SET SYMBOL (NIK119)
CONFIGURATION DESCRIPTION 77-0.74-TS 210 (INCIDENCE)
MSFC TVT610 (IA-71) 77-0.74-TS 210 (INCIDENCE)
MSFC TVT610 (IA-71) 77-0.74-TS 210 (INCIDENCE)

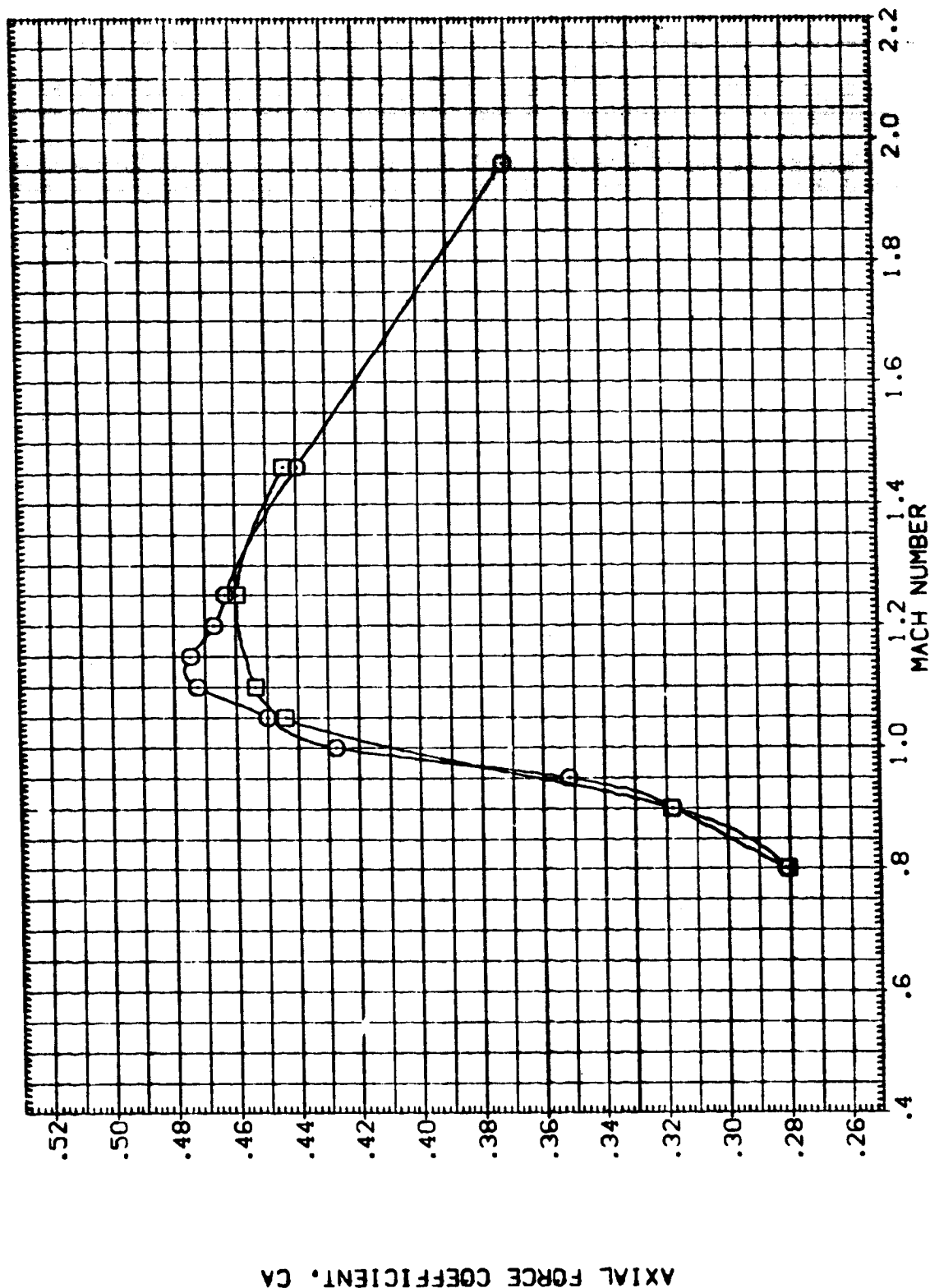


FIGURE 14 EFFECT OF ORBITER INCIDENCE ON VEHICLE AXIAL FORCE

(F)ALPHA = 4.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPDR
.000 .000 10.000
.000 -3.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIKI19) MSFC TVTSG (1A-71) 77-0.74-TS Z10
(NIKI20) MSFC TVTSG (1A-71) 77-0.74-TS Z10 (INCIDENCE)

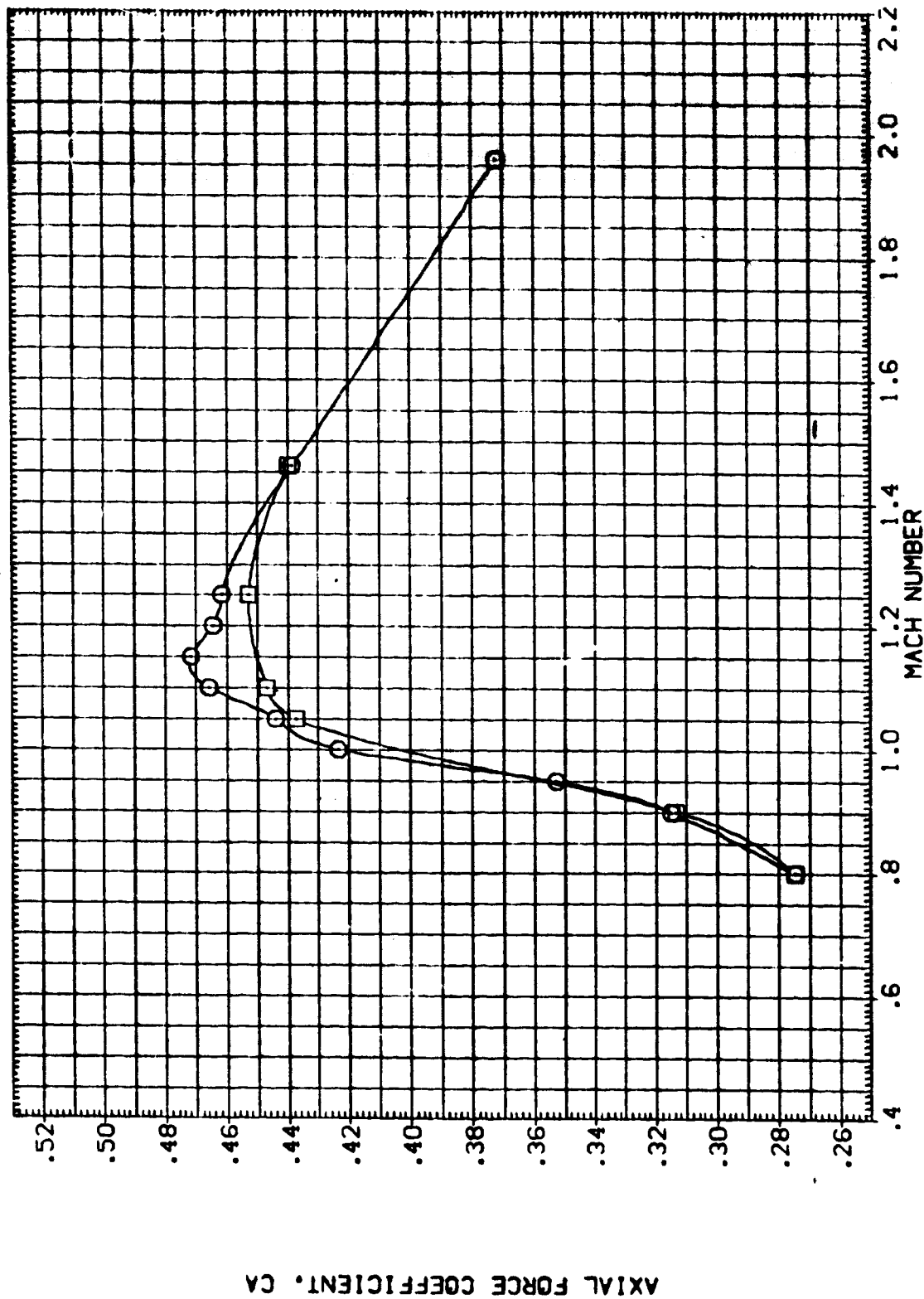


FIGURE 14 EFFECT OF ORBITER INCIDENCE ON VEHICLE AXIAL FORCE

(G)ALPHA = 5.70

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPOR 10.000
.000
.000
.000
.000

CONFIGURATION DESCRIPTION

DATA SET SYMBOL
(NIK119)
(NIK122)
(NIK123)
(NIK124)

MSFC TVT610 (1A-71) 77-0.74-TS Z10
MSFC TVT610 (1A-71) 77-0.74-TS Z10
MSFC TVT610 (1A-71) 77-0.74-TS Z10
MSFC TVT610 (1A-71) 77-0.74-TS Z10

WFAIRINGSF3
WFAIRINGSF5
WFAIRINGSF11

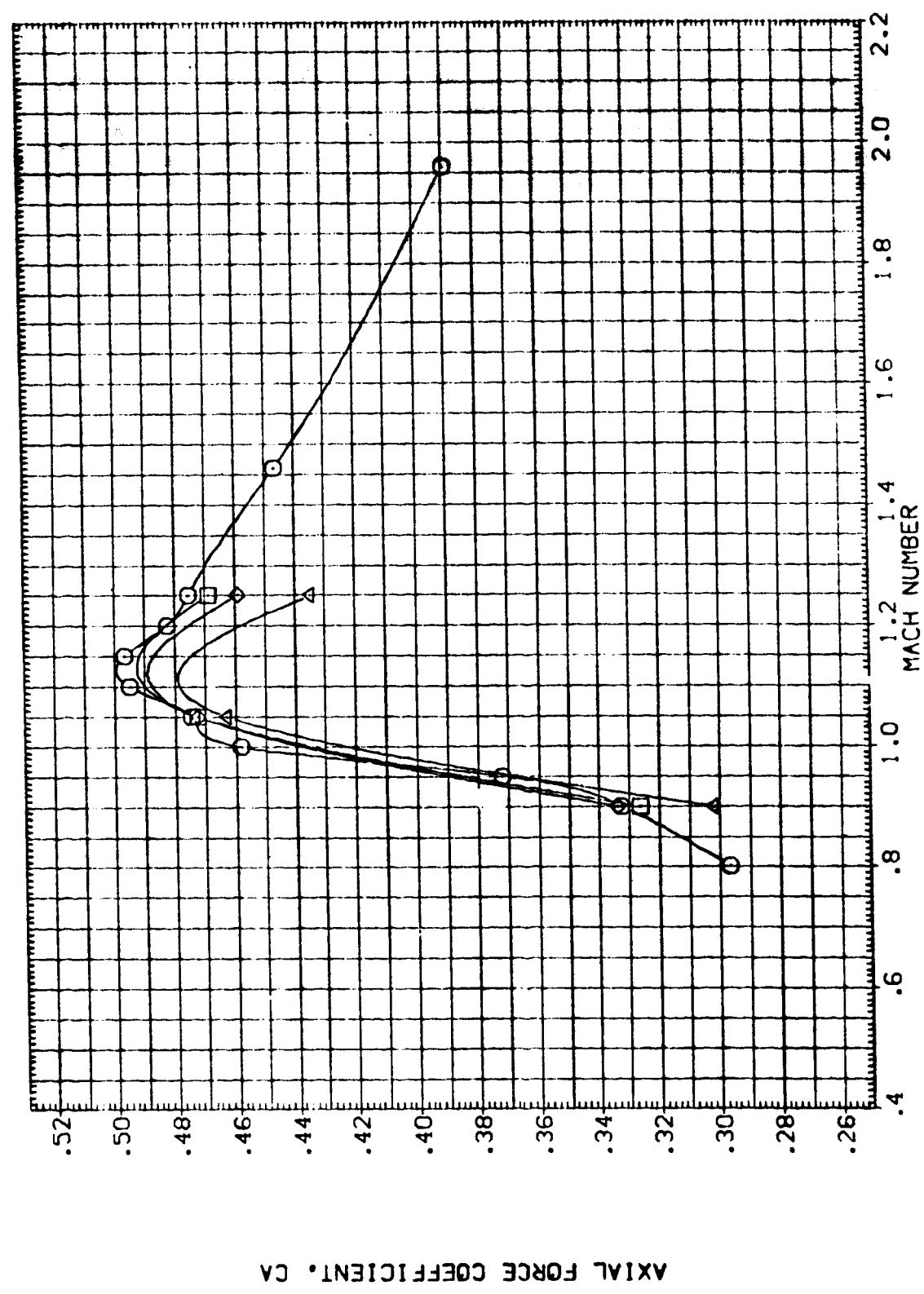


FIGURE 15 EFFECT OF FAIRING ON VEHICLE AXIAL FORCE

(A) ALPHA = -6.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPOR 10.000

MSFC TWT610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF3
MSFC TWT610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF5
MSFC TWT610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF11

DATA SET SYMBOL
(N1K119)
(N1K122)
(N1K123)
(N1K124)

CONFIGURATION DESCRIPTION

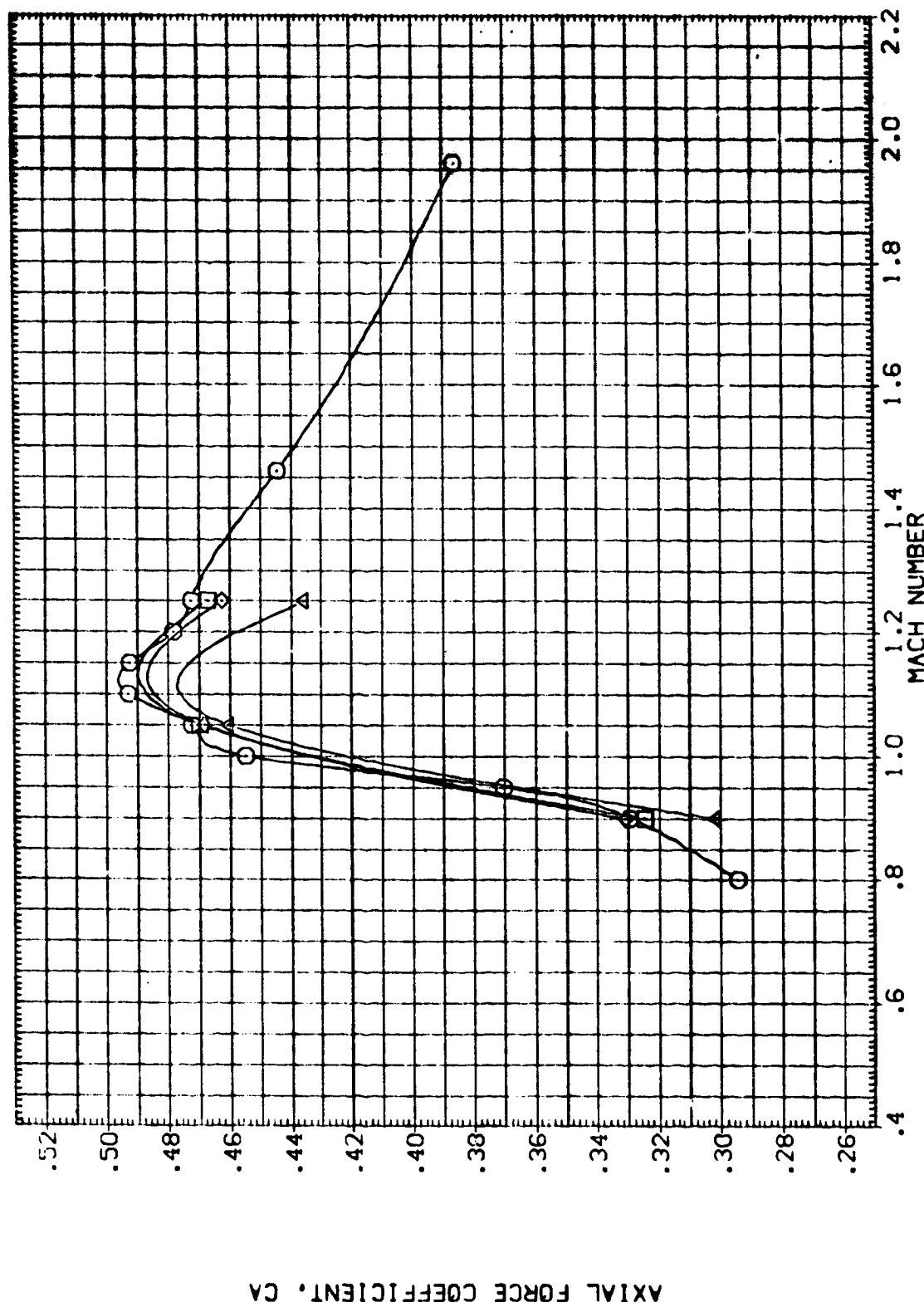


FIGURE 15 EFFECT OF FAIRING ON VEHICLE AXIAL FORCE

(B)ALPHA = -4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBITAL .000
FLIPOR 10.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(NIK119) MSFC TWT610 (IA-71) 77-0.74-TS Z10 V/FAIRINGSF3
(NIK122) MSFC TWT610 (IA-71) 77-0.74-TS Z10 V/FAIRINGSF3
(NIK123) MSFC TWT610 (IA-71) 77-0.74-TS Z10 V/FAIRINGSF3
(NIK124) MSFC TWT610 (IA-71) 77-0.74-TS Z10 V/FAIRINGSF3

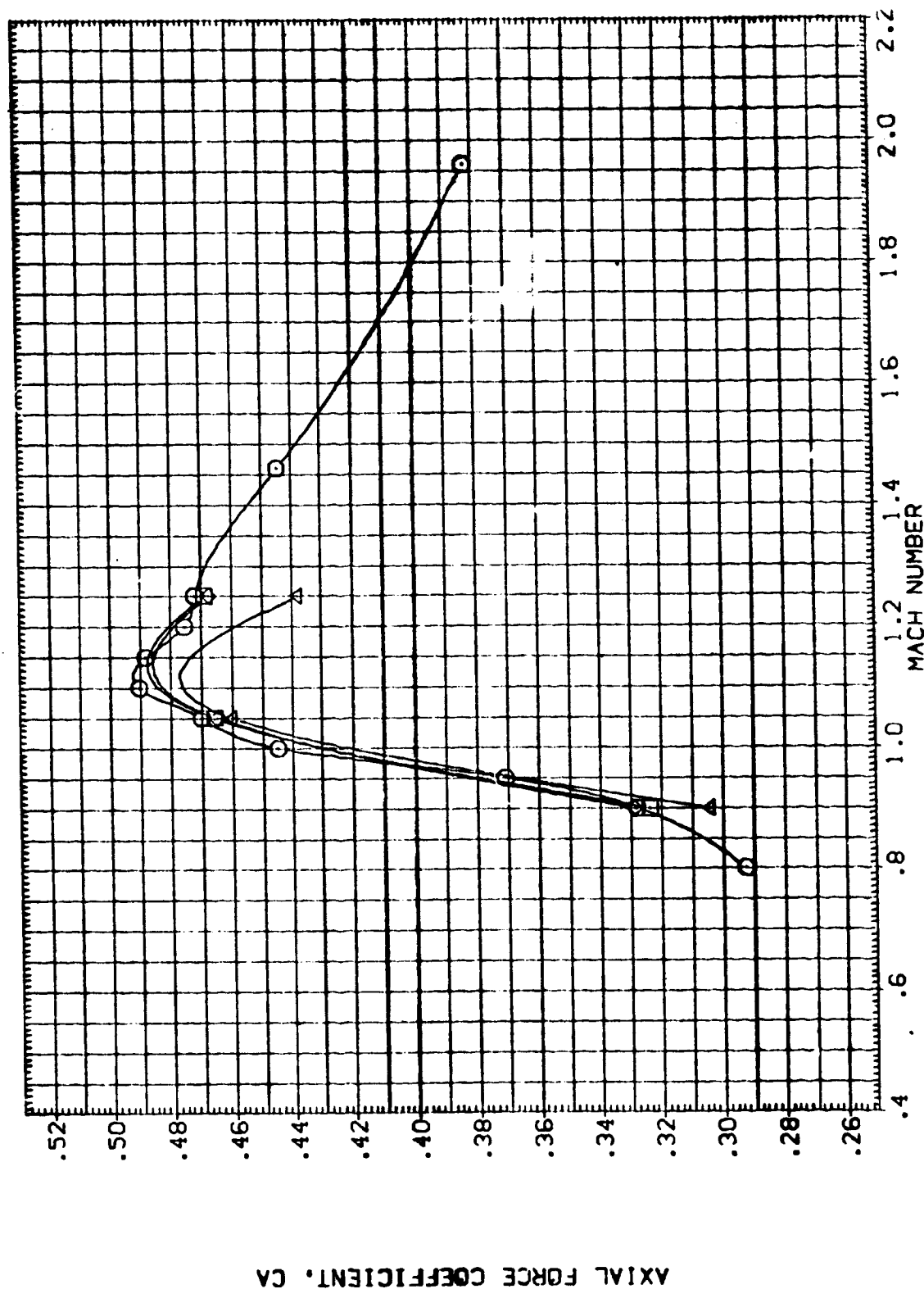


FIGURE 15 EFFECT OF FAIRING ON VEHICLE AXIAL FORCE

(C) ALPHA = -2.00



C

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000 .000
ORB INC .000 .000 .000
FLIP OR 10.000 .000 .000

MSFC TVT610 (IA-71) 77-0.74-TS Z10 V/FAIRINGSF3
MSFC TVT610 (IA-71) 77-0.74-TS Z10 V/FAIRINGSF5
MSFC TVT610 (IA-71) 77-0.74-TS Z10 V/FAIRINGSF11

DATA SET SYMBOL
(NIK119)
(NIK122)
(NIK123)
(NIK124)

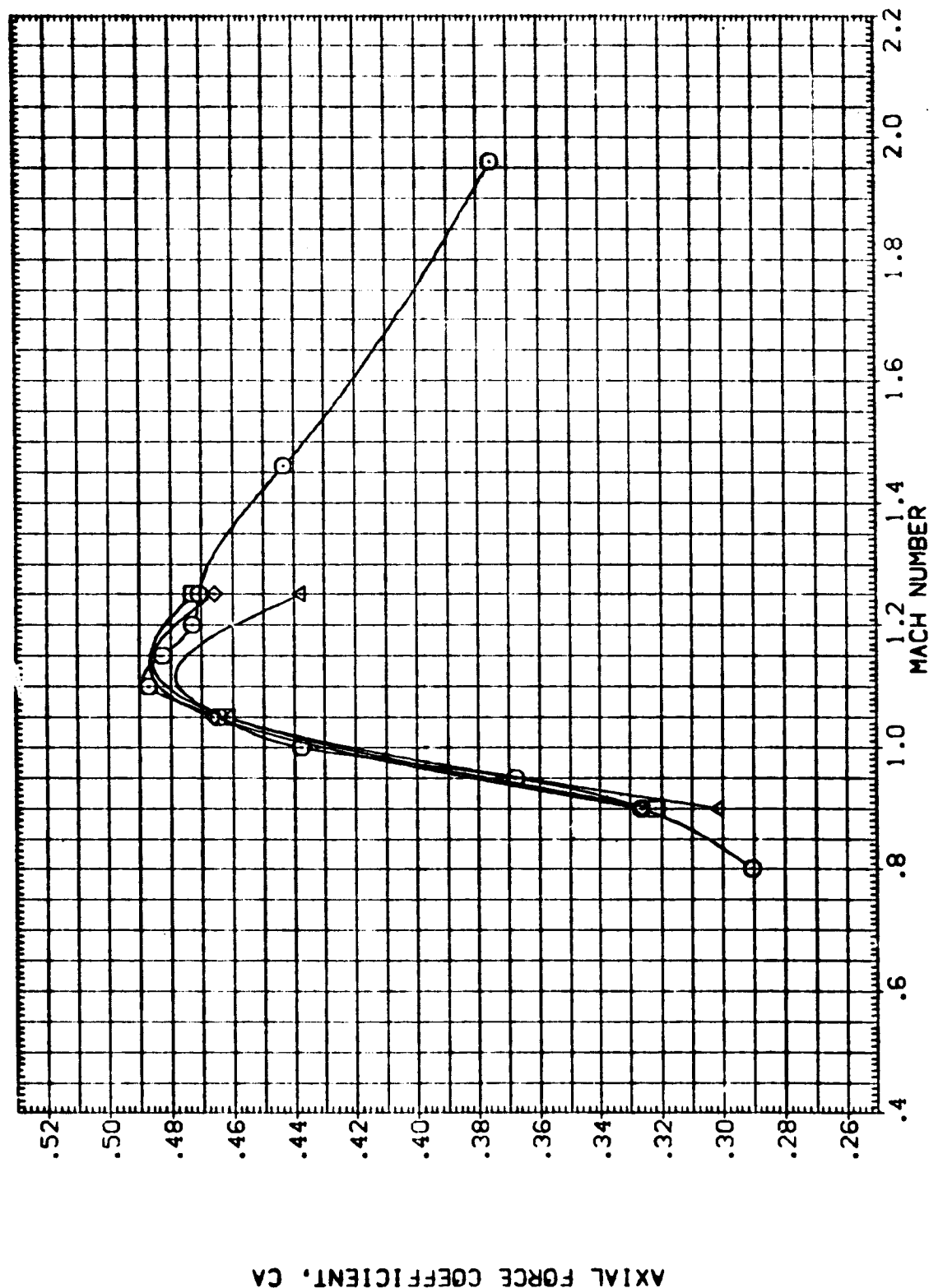


FIGURE 15 EFFECT OF FAIRING ON VEHICLE AXIAL FORCE

(D) ALPHA = .00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORB INC .000
FLIPOR 10.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(NIK119) MSFC TW610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF3
(NIK122) MSFC TW610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF5
(NIK123) MSFC TW610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF11
(NIK124) MSFC TW610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF11

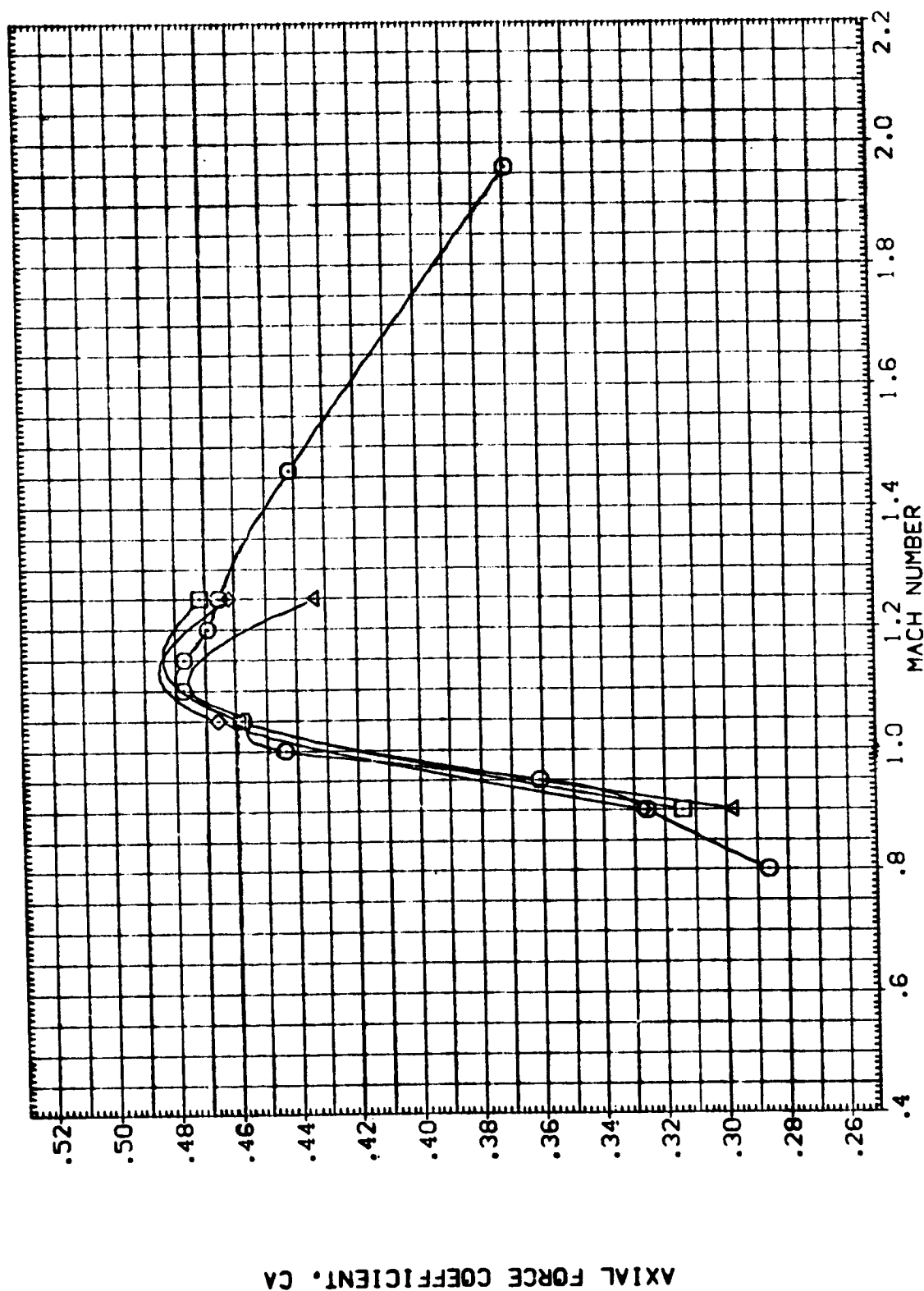


FIGURE 15 EFFECT OF FAIRING ON VEHICLE AXIAL FORCE

(E)ALPHA = 2.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPOR 10.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N)K119 MSFC TVT610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF3
(N)K122 MSFC TVT610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF3
(N)K123 MSFC TVT610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF3
(N)K124 MSFC TVT610 (1A-71) 77-0.74-TS Z10 V/FAIRINGSF11

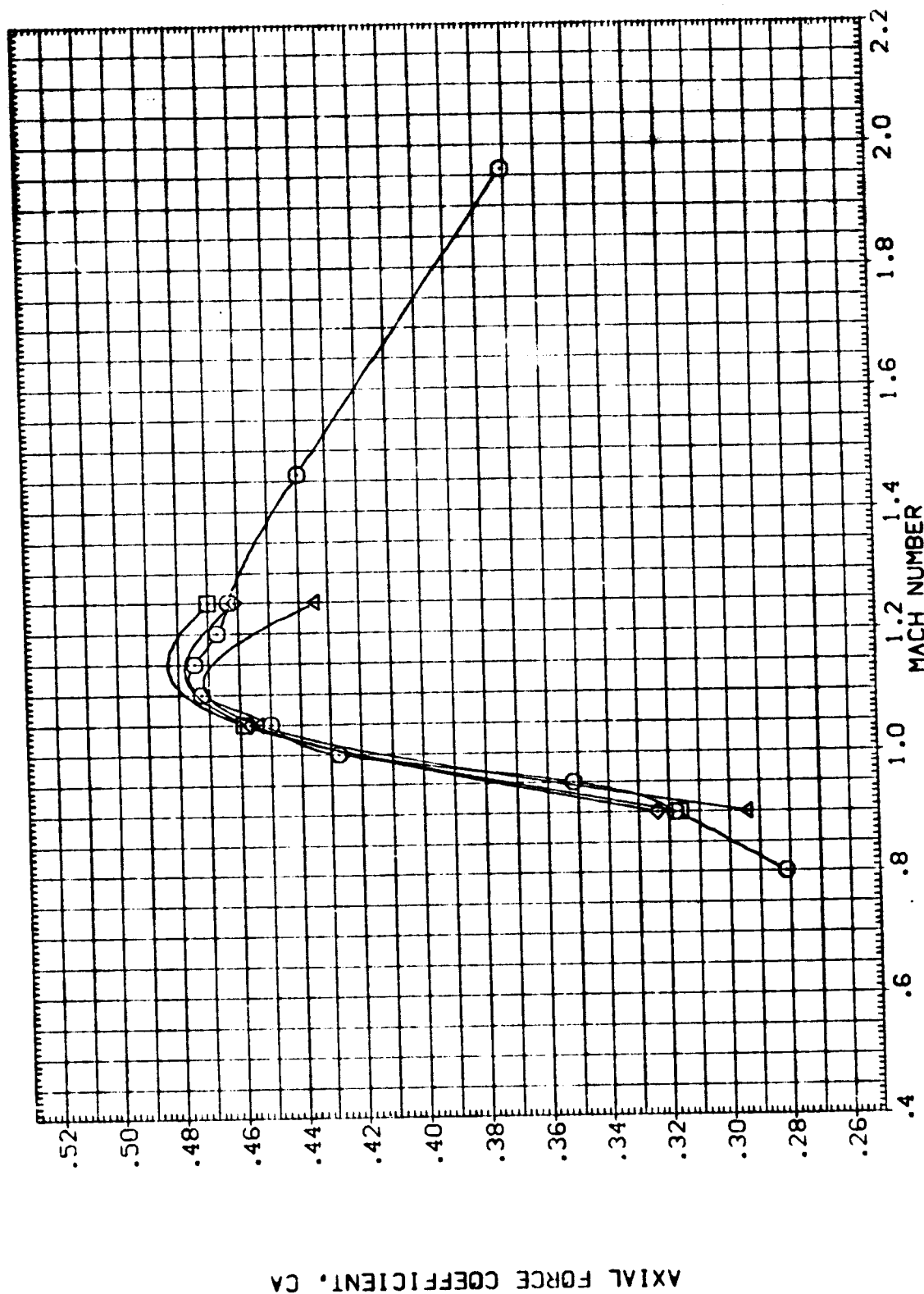


FIGURE 15 EFFECT OF FAIRING ON VEHICLE AXIAL FORCE

(F)ALPHA = 4.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
CRBINC .000
FLIPOR 10.000

CONFIGURATION DESCRIPTION

MSFC TW610 (1A-71) 77-0.74-TS Z10
MSFC TW610 (1A-71) 77-0.74-TS Z10
MSFC TW610 (1A-71) 77-0.74-TS Z10
MSFC TW610 (1A-71) 77-0.74-TS Z10

DATA SET SYMBOL
(NIK119)
(NIK122)
(NIK123)
(NIK124)

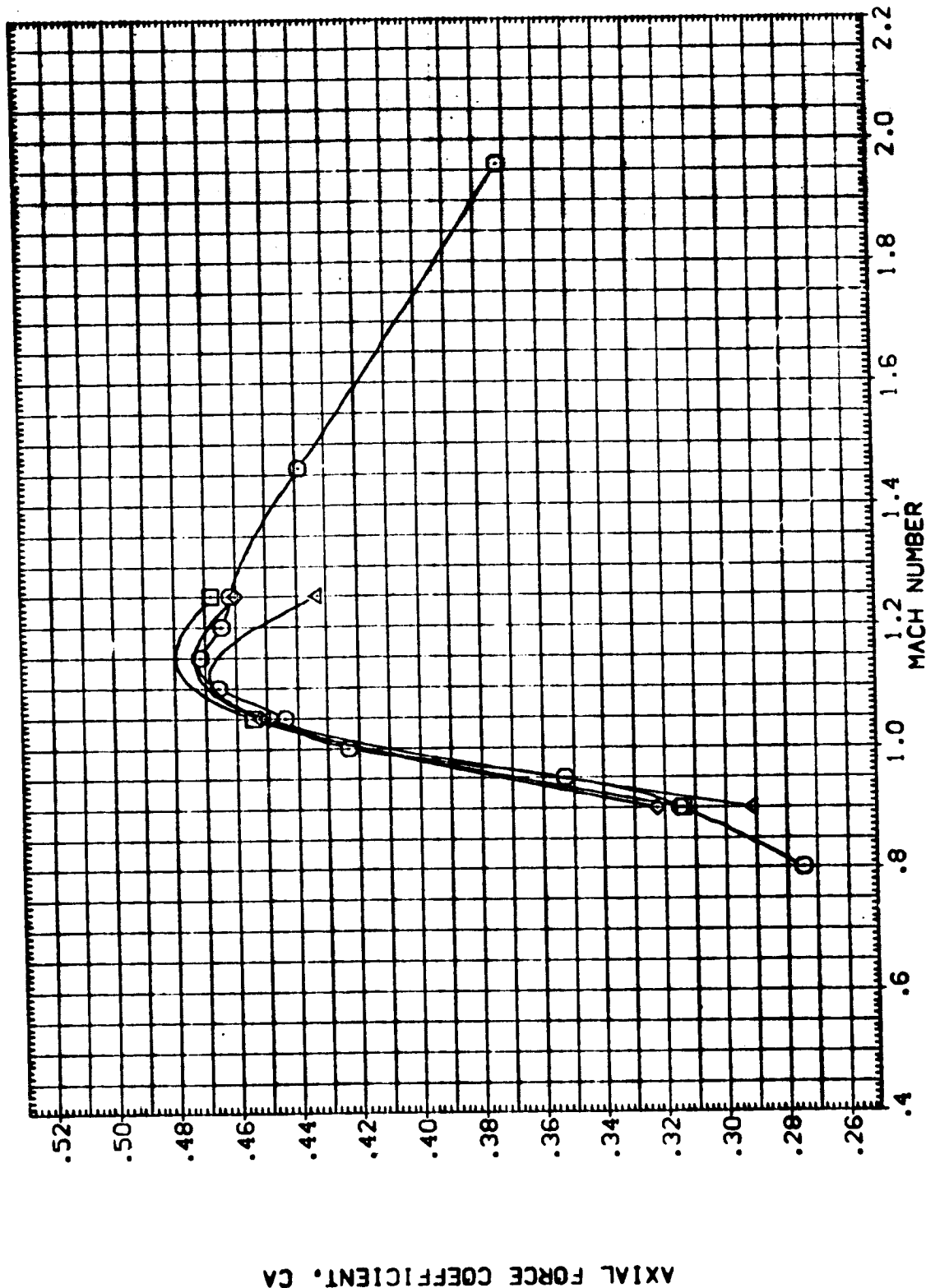


FIGURE 15 EFFECT OF FAIRING ON VEHICLE AXIAL FORCE

(G)ALPHA = 5.70



DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K125) MSFC TVT610 (1A-71) 74-OTS Z13
(N1K126) MSFC TVT610 (1A-71) 74-OTS Z13
(N1K129) MSFC TVT610 (1A-71) 74-OTS Z12
(N1K130) MSFC TVT610 (1A-71) 74-OTS Z14

BETA .000 .000 .000 .000
GRSINC .000 .000 .000 .000
FLIPDR 20.000 20.000 20.000 20.000

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

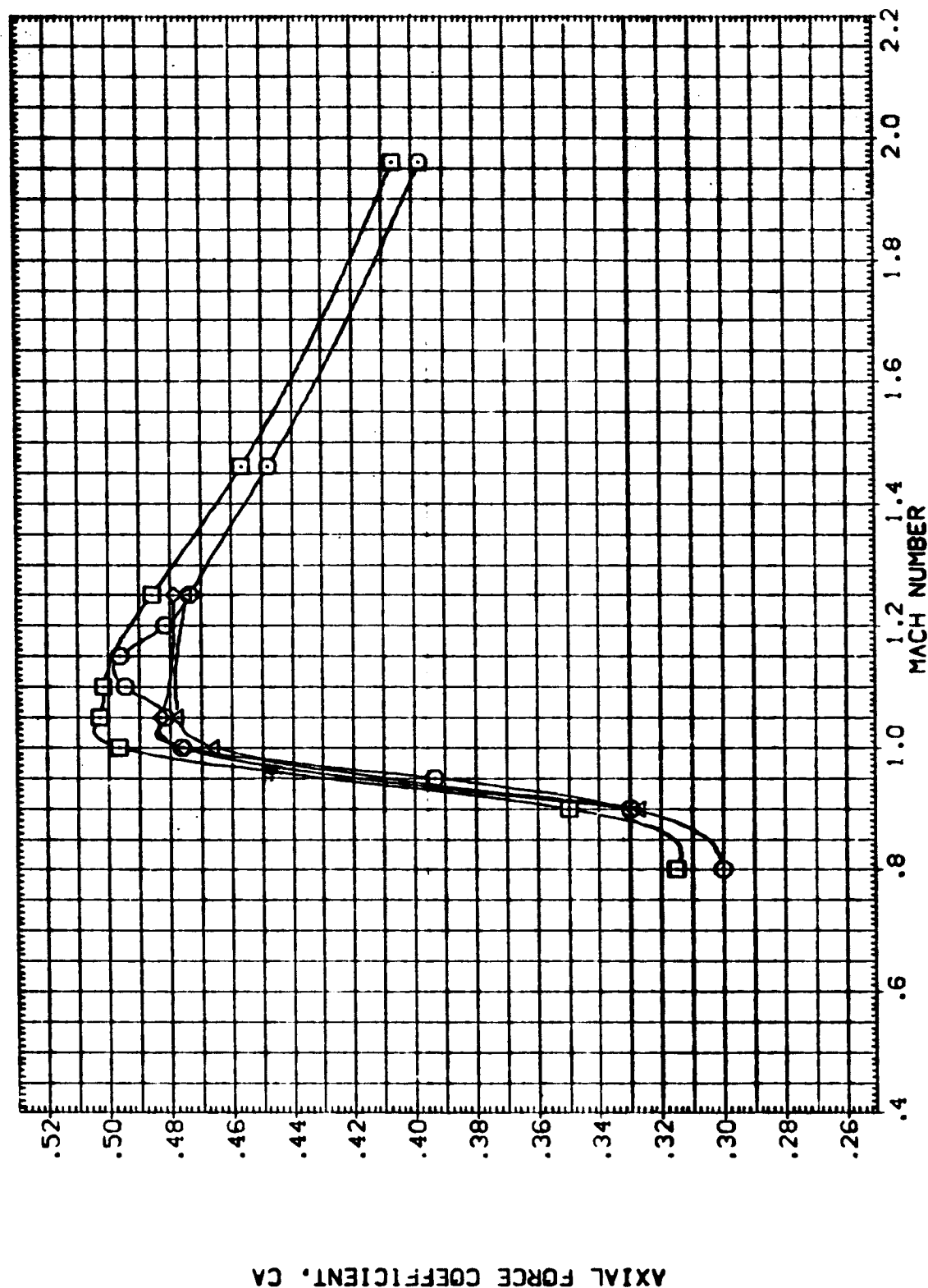


FIGURE 16 EFFECT OF FLIPPER DOOR CONFIGURATION ON VEHICLE AXIAL FORCE (74-OTS)

(A) ALPHA = -6.00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATA SETS

BETA .000
ORB INC .000
FLIPDR 20.000
20.000
20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K125) MSFC TVB10 (1A-71) 74-GTS Z13
(N1K126) MSFC TVB10 (1A-71) 74-GTS Z13
(N1K127) MSFC TVB10 (1A-71) 74-GTS Z12
(N1K130) MSFC TVB10 (1A-71) 74-GTS Z14

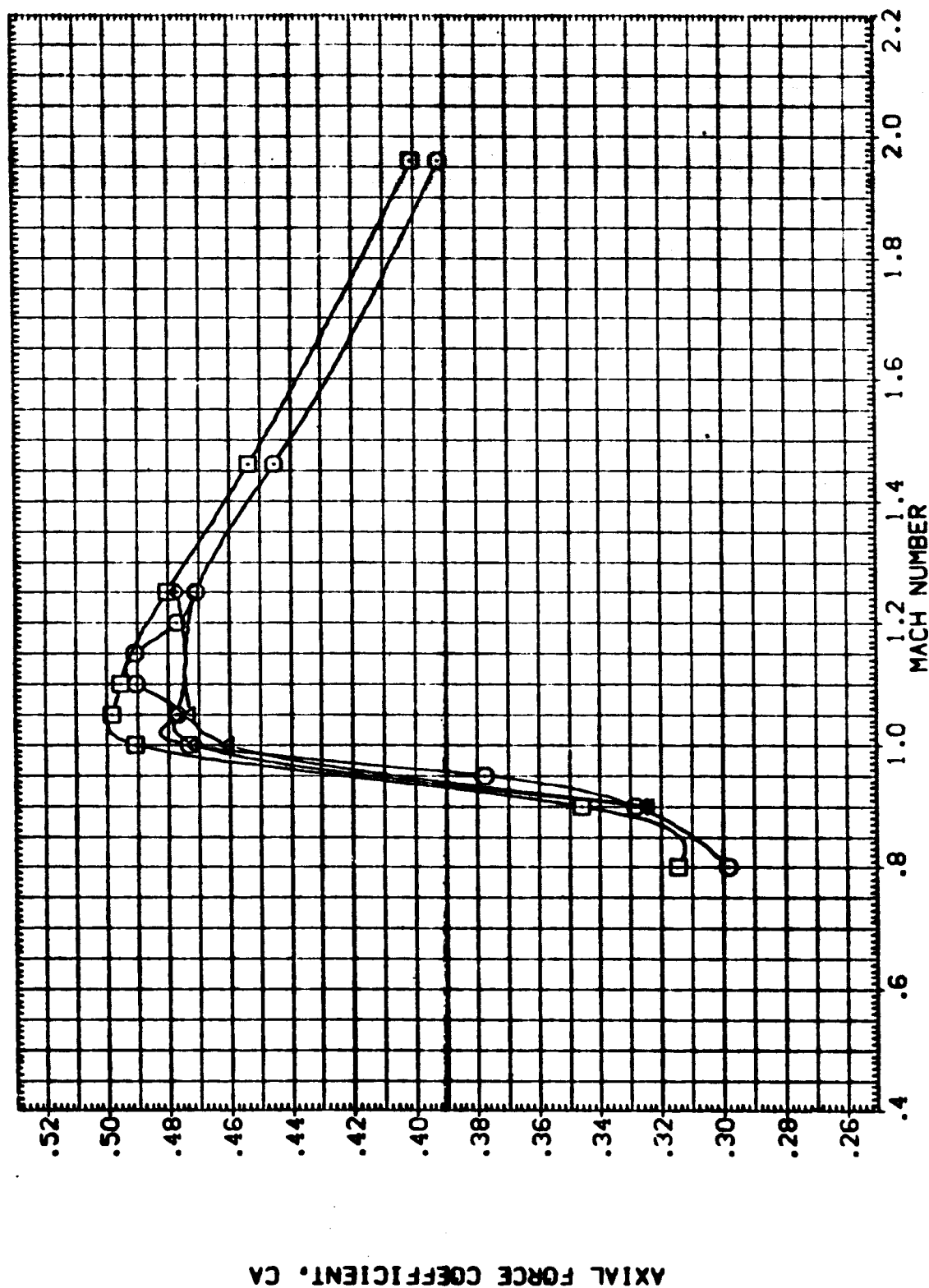


FIGURE 16 EFFECT OF FLIPPER DOOR CONFIGURATION ON VEHICLE AXIAL FORCE (74-GTS)

(B) ALPHA = -4.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBINC .000
FLIPOR 20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K125) MSFC TVT610 (1A-71) 74-OTS Z13
(N1K126) MSFC TVT610 (1A-71) 74-OTS Z13
(N1K129) MSFC TVT610 (1A-71) 74-OTS Z12
(N1K130) MSFC TVT610 (1A-71) 74-OTS Z14

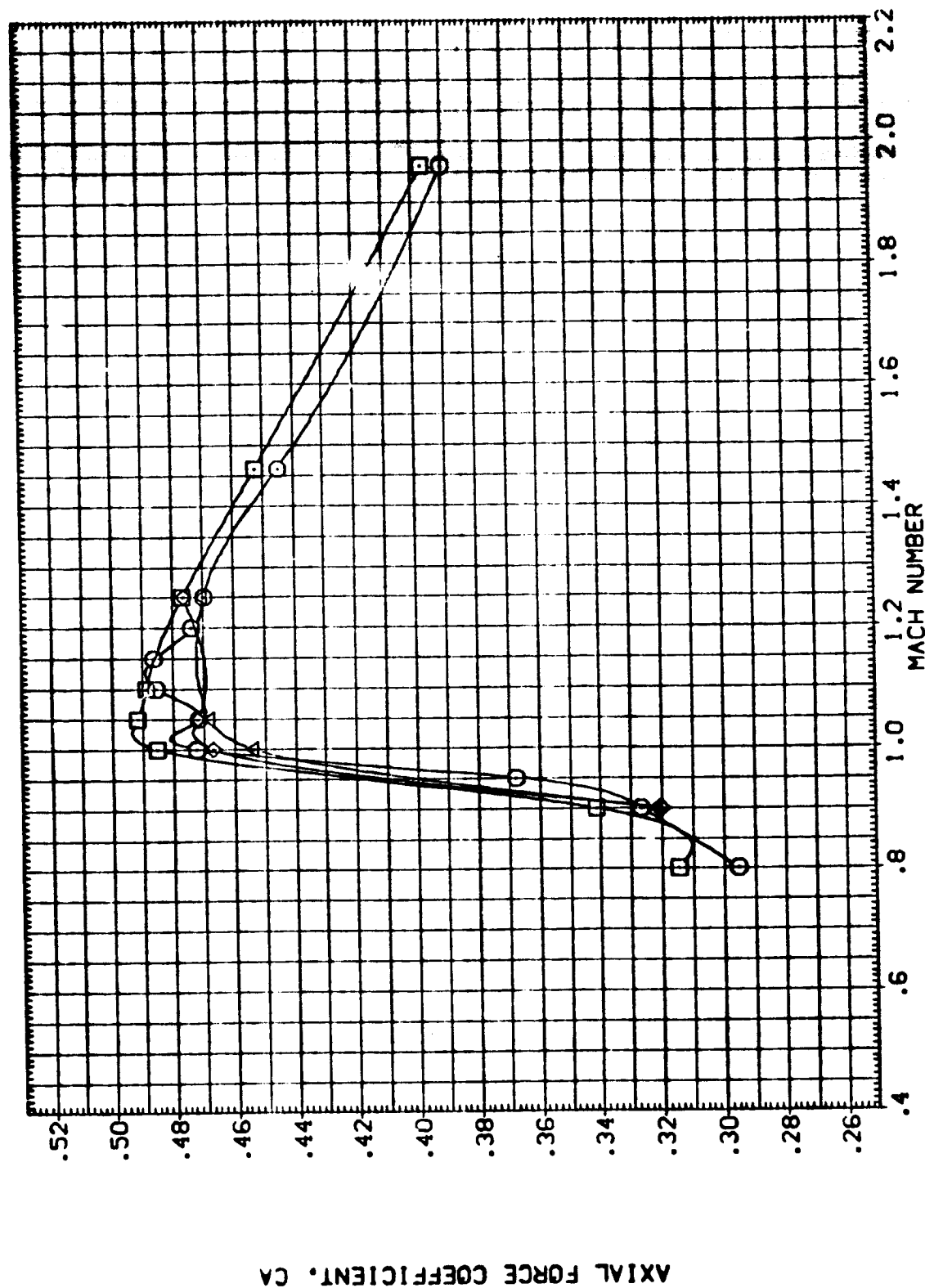


FIGURE 16 EFFECT OF FLIPPER DOOR CONFIGURATION ON VEHICLE AXIAL FORCE (74-OTS)

(C) ALPHA = -2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (N1K125) MSFC TWT610 (1A-71) 74-OTS Z13
 (N1K126) MSFC TWT610 (1A-71) 74-OTS Z13
 (N1K129) MSFC TWT610 (1A-71) 74-OTS Z12
 (N1K130) MSFC TWT610 (1A-71) 74-OTS Z14

BETA ORBINC FLIPOR
 .000 .000 20.000
 .000 .000 40.000
 .000 .000 20.000
 .000 .000 20.000

SEE THE ASSOCIATED DATA
 DOCUMENT FOR REFERENCE
 CHARACTERISTICS FOR
 INDIVIDUAL DATASETS

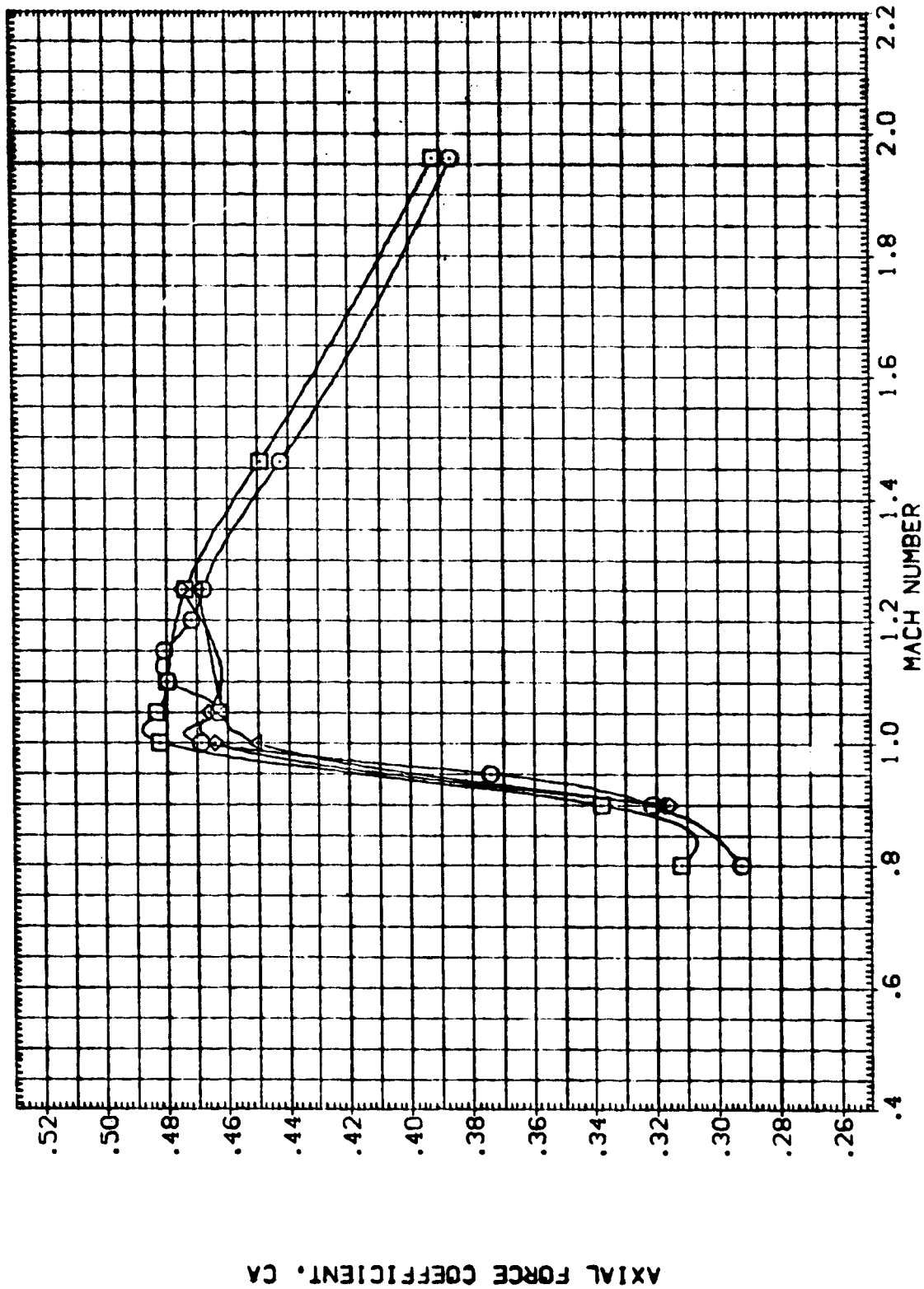


FIGURE 16 EFFECT OF FLIPPER DOOR CONFIGURATION ON VEHICLE AXIAL FORCE (74-OTS)

(D) ALPHA = .00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBIT .000
FLIPOR 20.000
20.000
20.000
20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIKI25) MSFC TVT610 (1A-71) 74-OTS Z13
(NIKI26) MSFC TVT610 (1A-71) 74-OTS Z13
(NIKI29) MSFC TVT610 (1A-71) 74-OTS Z12
(NIKI30) MSFC TVT610 (1A-71) 74-OTS Z14

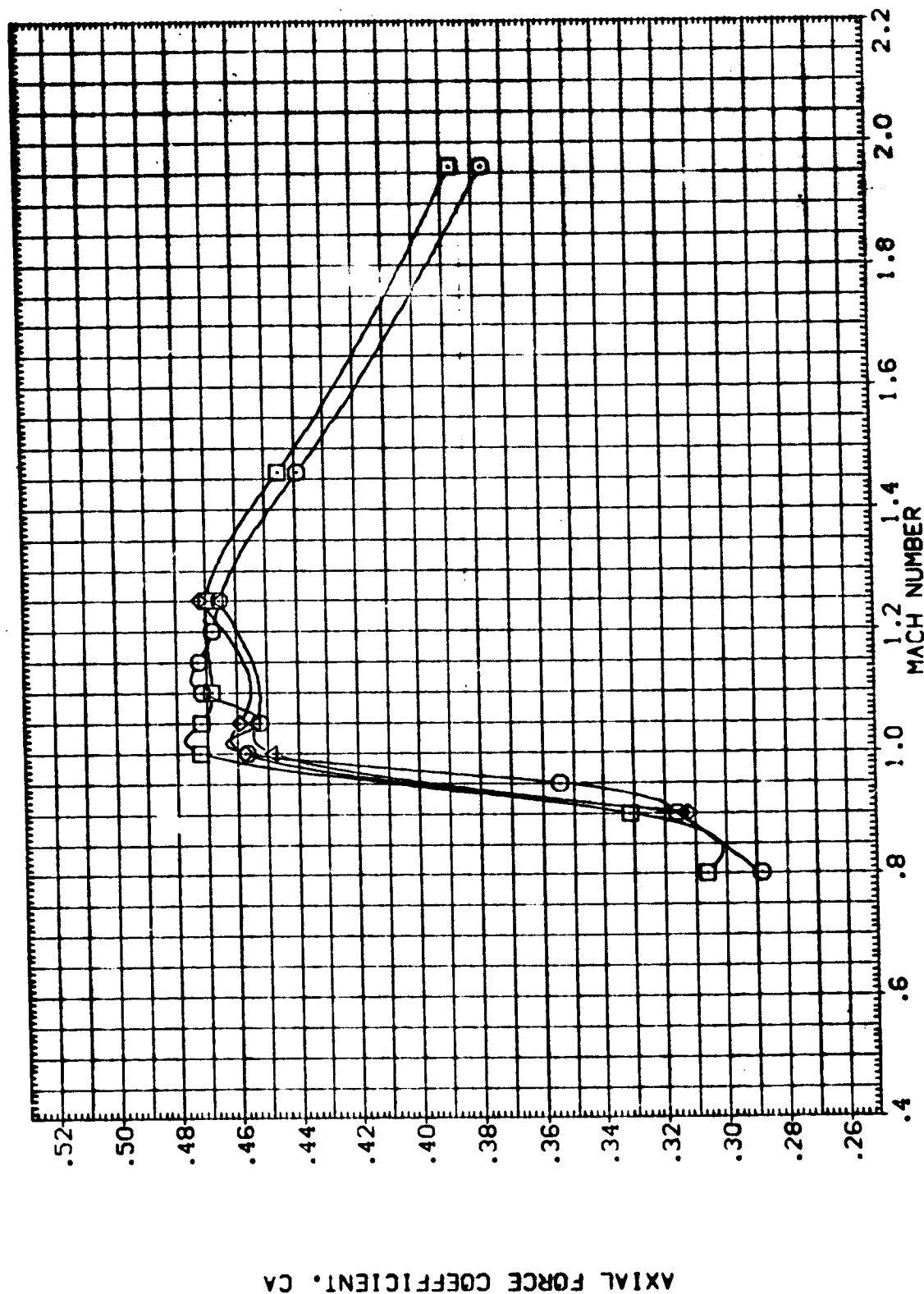


FIGURE 16 EFFECT OF FLIPPER DOOR CONFIGURATION ON VEHICLE AXIAL FORCE (74-OTS)
(E) ALPHA = 2.00
PAGE 147

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORBIT .000
FLIPDR 20.000
20.000
20.000
20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K125) MSFC TVT610 (1A-71) 74-OTS Z13
(N1K126) MSFC TVT610 (1A-71) 74-OTS Z13
(N1K129) MSFC TVT610 (1A-71) 74-OTS Z12
(N1K130) MSFC TVT610 (1A-71) 74-OTS Z14

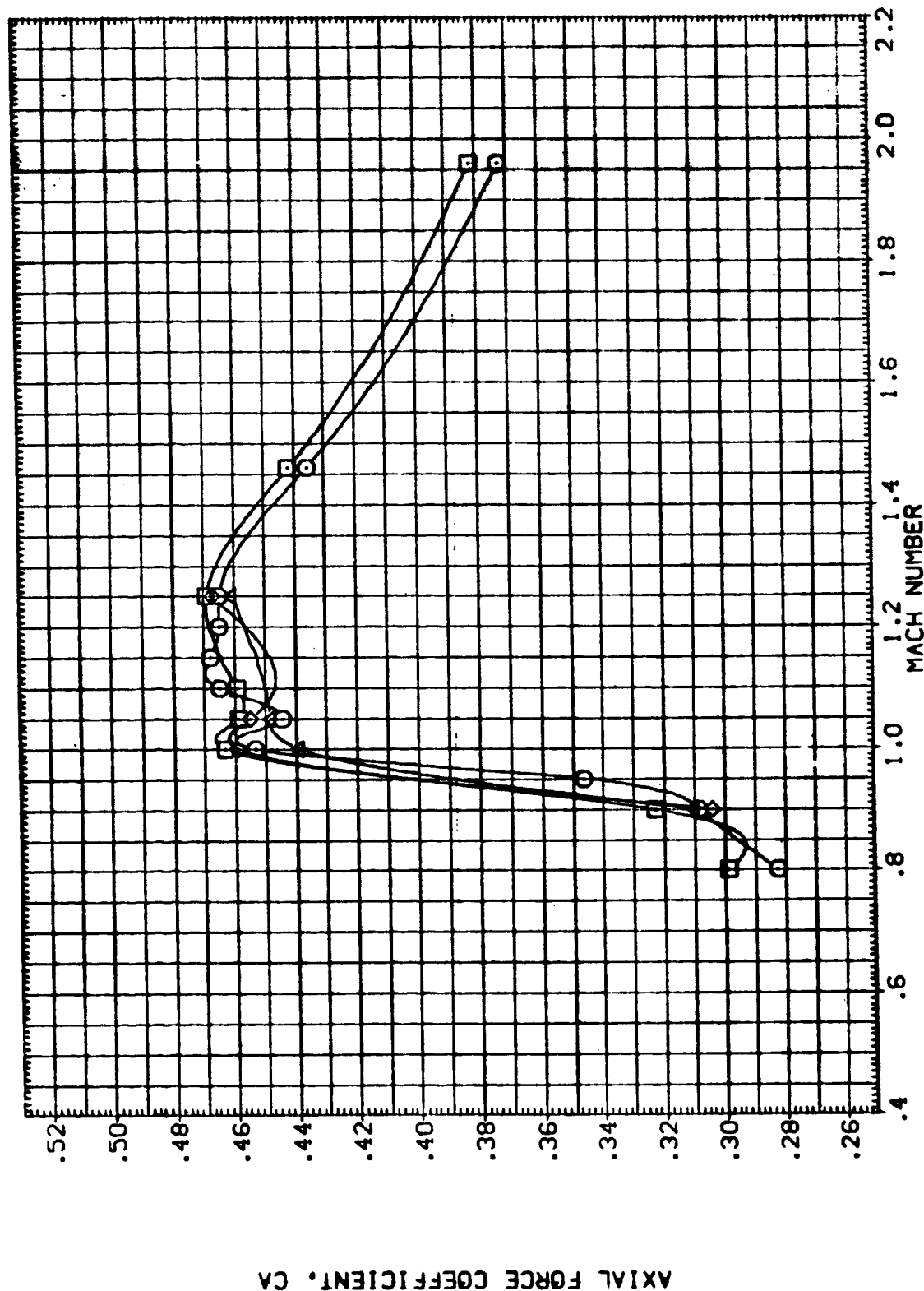


FIGURE 16 EFFECT OF FLIPPER DOOR CONFIGURATION ON VEHICLE AXIAL FORCE (74-OTS)



①

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
ORB INC .000
FLIPDR 20.000
20.000
20.000
20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K) 25) MSFC TWT610 (1A-71) 74-OTS Z13
(N1K) 26) MSFC TWT610 (1A-71) 74-OTS Z13
(N1K) 29) MSFC TWT610 (1A-71) 74-OTS Z12
(N1K) 30) MSFC TWT610 (1A-71) 74-OTS Z14

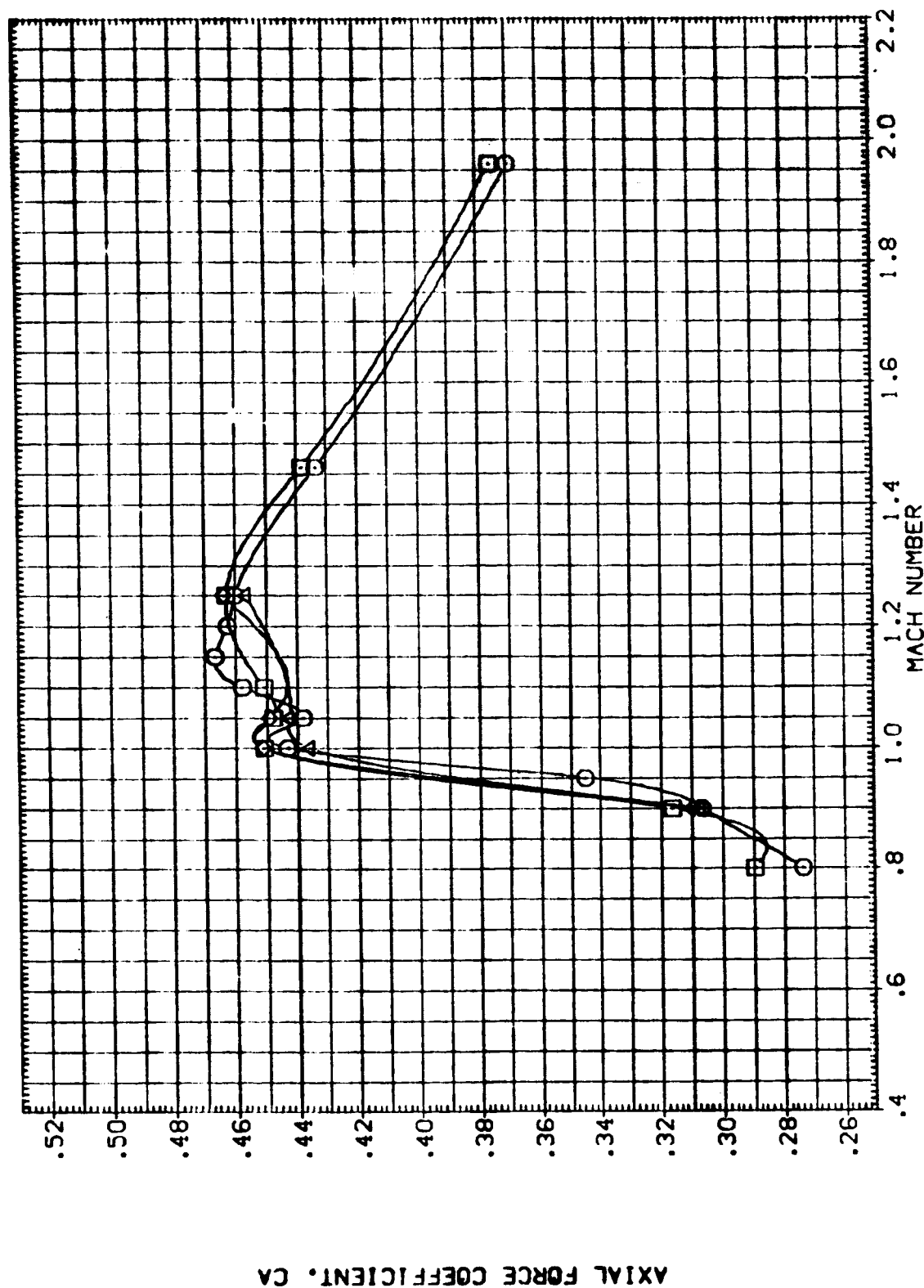


FIGURE 16 EFFECT OF FLIPPER DOOR CONFIGURATION ON VEHICLE AXIAL FORCE (74-OTS)

(G) ALPHA = 5.70

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
.000
.000
ORB INC .000
.000
.000
FLIPDR 20.000
40.000
20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K131) MSFC TWT610 (1A-71) 77-0.74-TS Z13
(N1K132) MSFC TWT610 (1A-71) 77-0.74-TS Z13
(N1K137) MSFC TWT610 (1A-71) 77-0.74-TS Z10

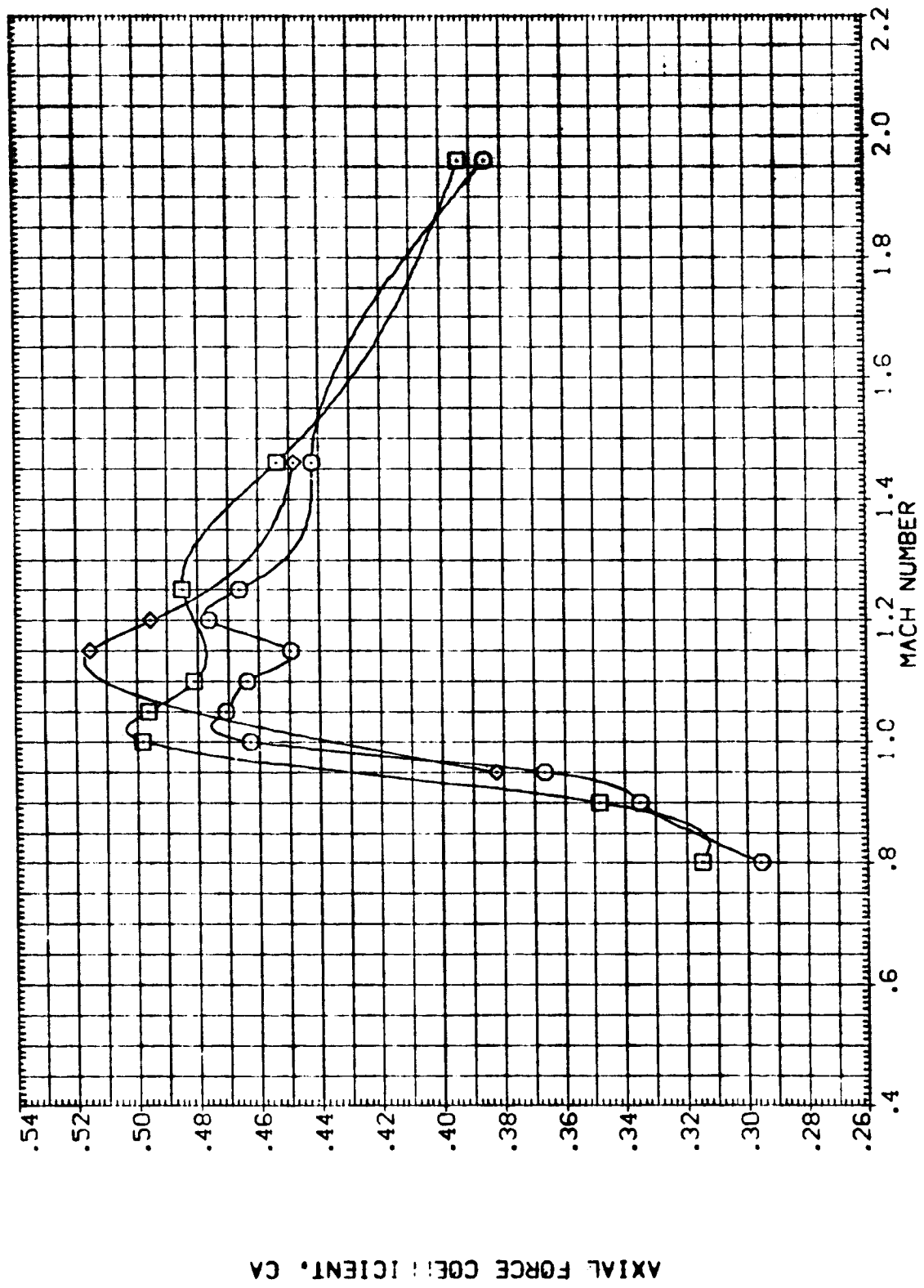


FIGURE 17 EFFECT OF FLIPPER DOOR CONFIGURATION ON VEHICLE AXIAL FORCE (770.74TS)

(A) ALPHA = -6.00



DATA SET SYMBOL
(NIK131)
(NIK132)
(NIK137)

CONFIGURATION DESCRIPTION

MSFC TWT610 (IA-71) 77-0.74-TS Z13
MSFC TWT610 (IA-71) 77-0.74-TS Z13
MSFC TWT610 (IA-71) 77-0.74-TS Z10

BETA .000
ORBINC .000
FLIPDR 20.000
40.000
20.000

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

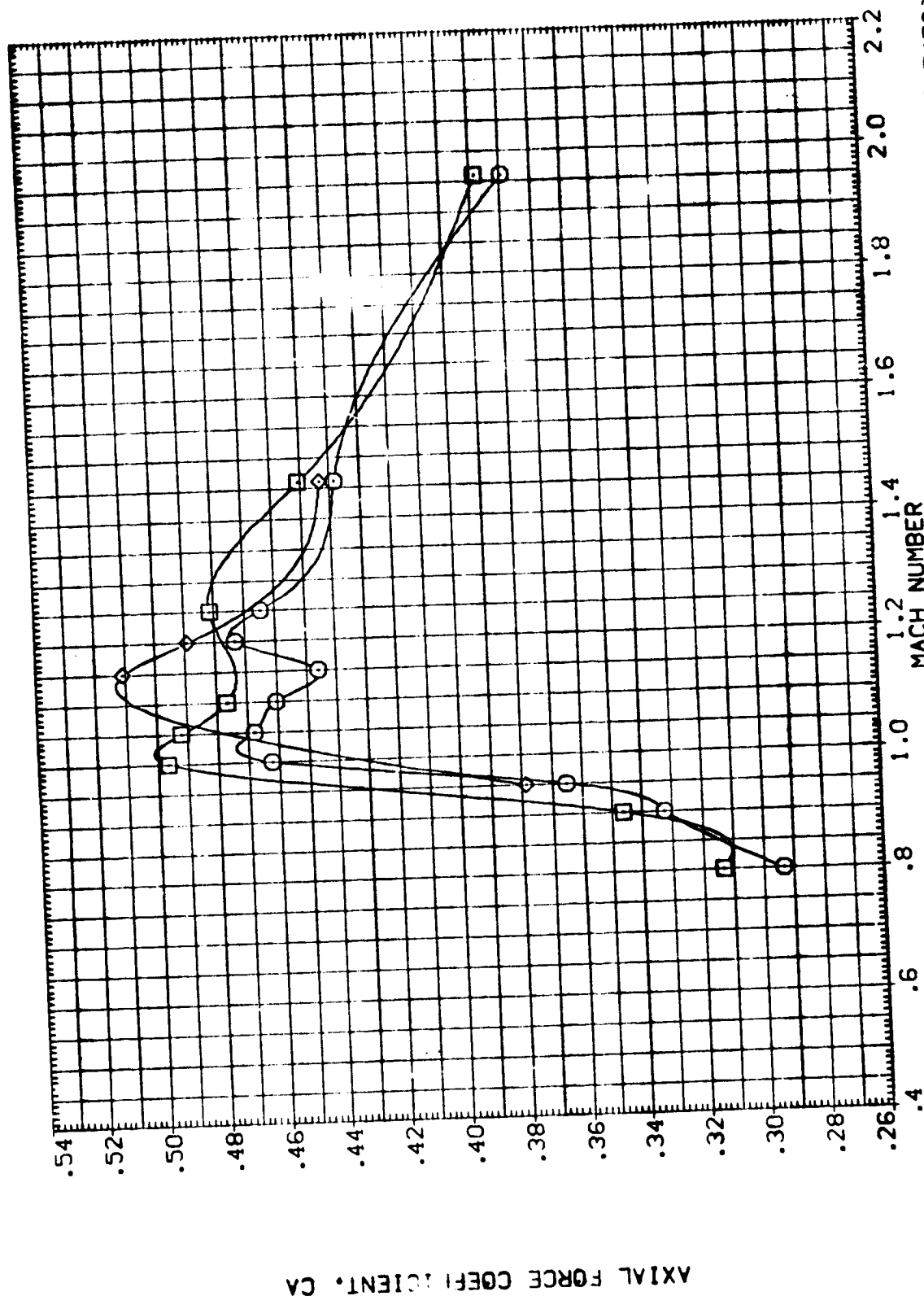


FIGURE 17 EFFECT OF FLIPPER DOOR CONFIGURATION ON VEHICLE AXIAL FORCE (770.74TS)

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
.000
.000
ORBITAL .000
FLIPPER 20.000
40.000
20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIK131) MSFC TW610 (1A-71) 77-0.74-TS Z13
(NIK132) MSFC TW610 (1A-71) 77-0.74-TS Z13
(NIK137) MSFC TW610 (1A-71) 77-0.74-TS Z10

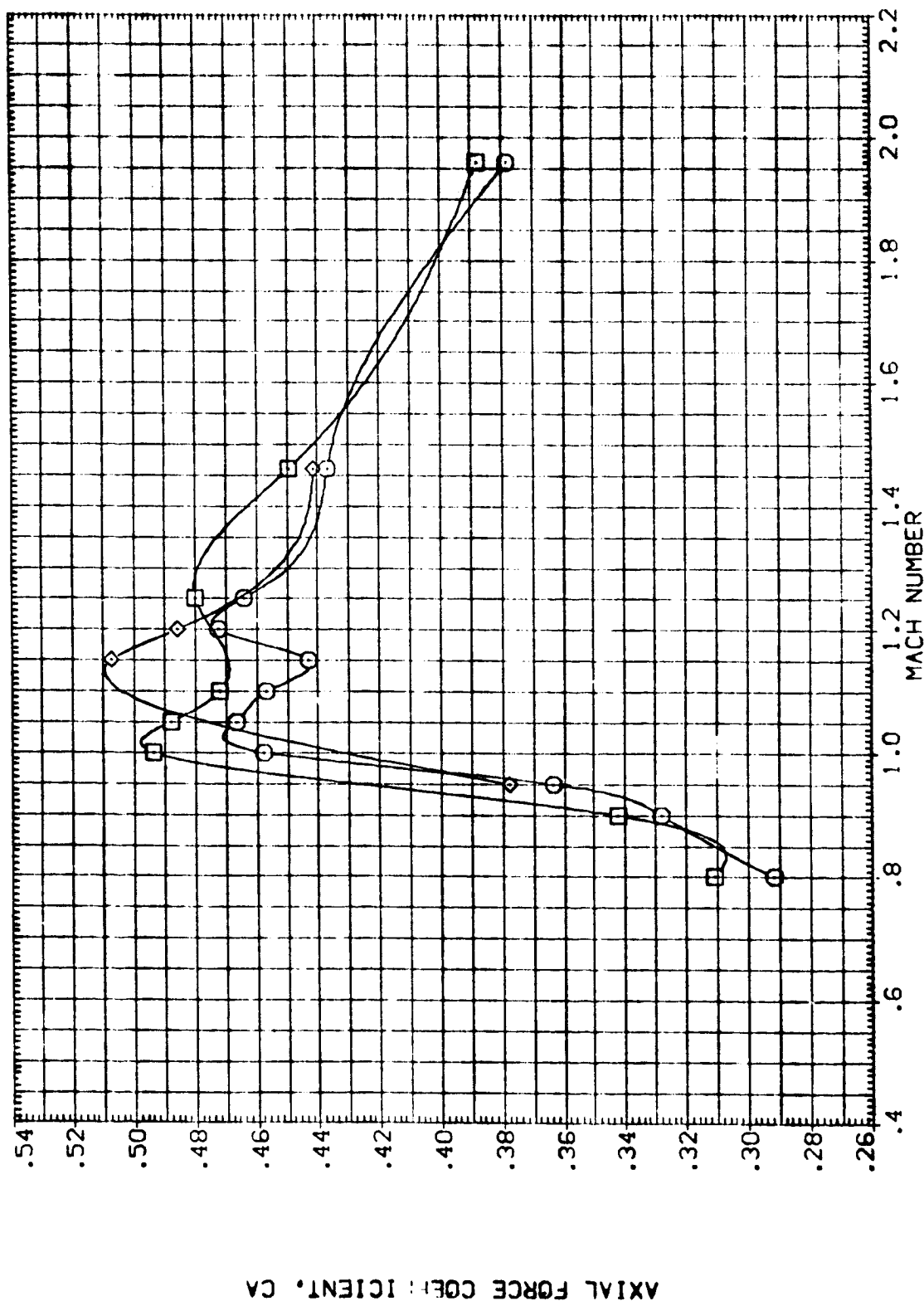


FIGURE 17 EFFECT OF FLIPPER DOOR CONFIGURATION ON VEHICLE AXIAL FORCE (770.74TS)

(C) ALPHA = -2.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA ORBINC FLIPOR
.000 .000 20.000
.000 .000 40.000
.000 .000 20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(N1K131) MSFC TWT610 (1A-71) 77-0.74-TS Z13
(N1K132) MSFC TWT610 (1A-71) 77-0.74-TS Z13
(N1K137) MSFC TWT610 (1A-71) 77-0.74-TS Z10

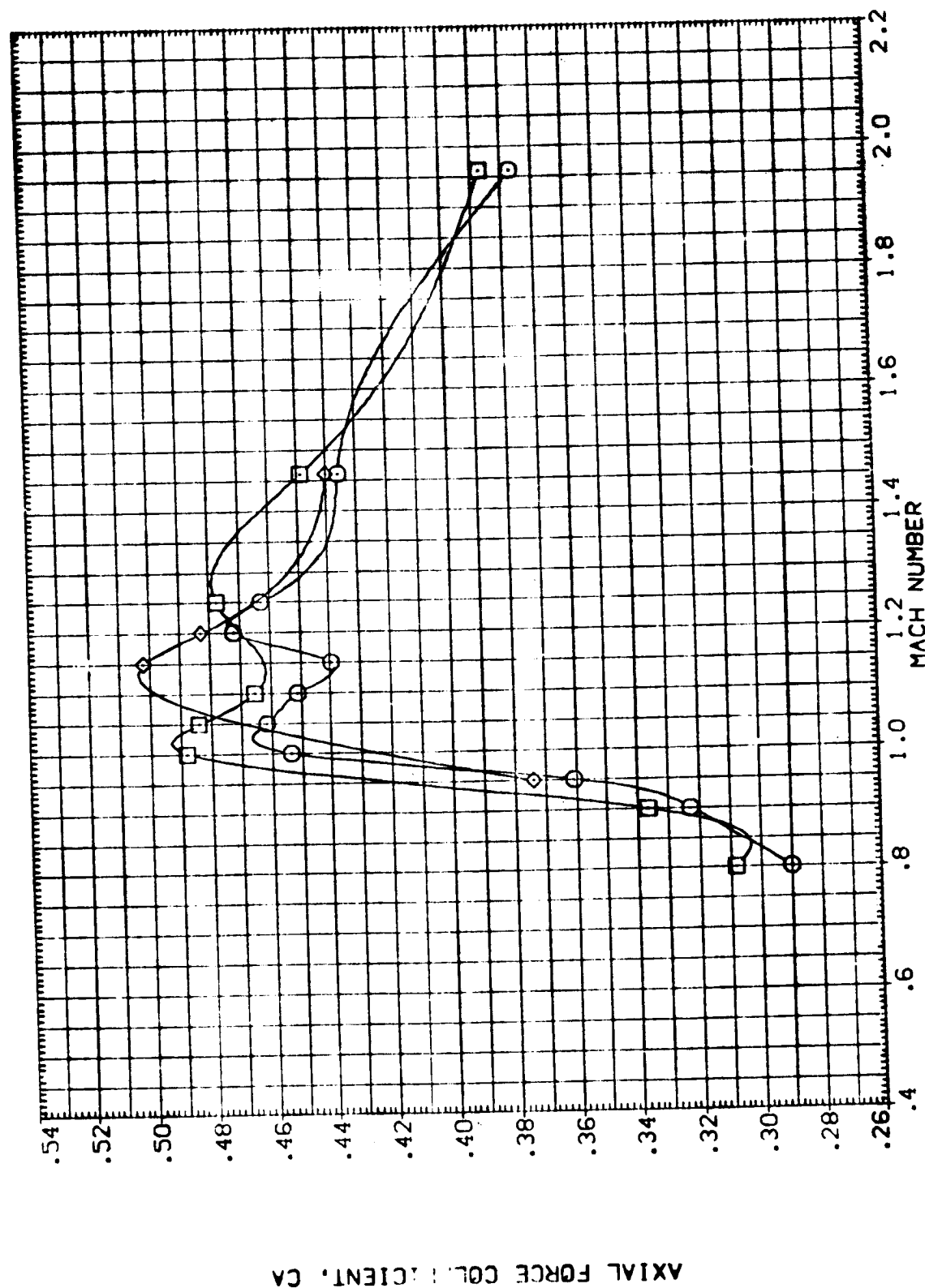


FIGURE 17 EFFECT OF FLIPPER DOOR CONFIGURATION ON VEHICLE AXIAL FORCE (770.74TS)

(D) ALPHA = .00

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000 .000 .000
ORBIT .000 .000 .000
FLIPOR 20.000 40.000 20.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(NIR131) MSFC TWT610 (A-71) 77-0.74-TS Z13
(NIR122) MSFC TWT610 (A-71) 77-0.74-TS Z13
(NIR137) MSFC TWT610 (A-71) 77-0.74-TS Z10

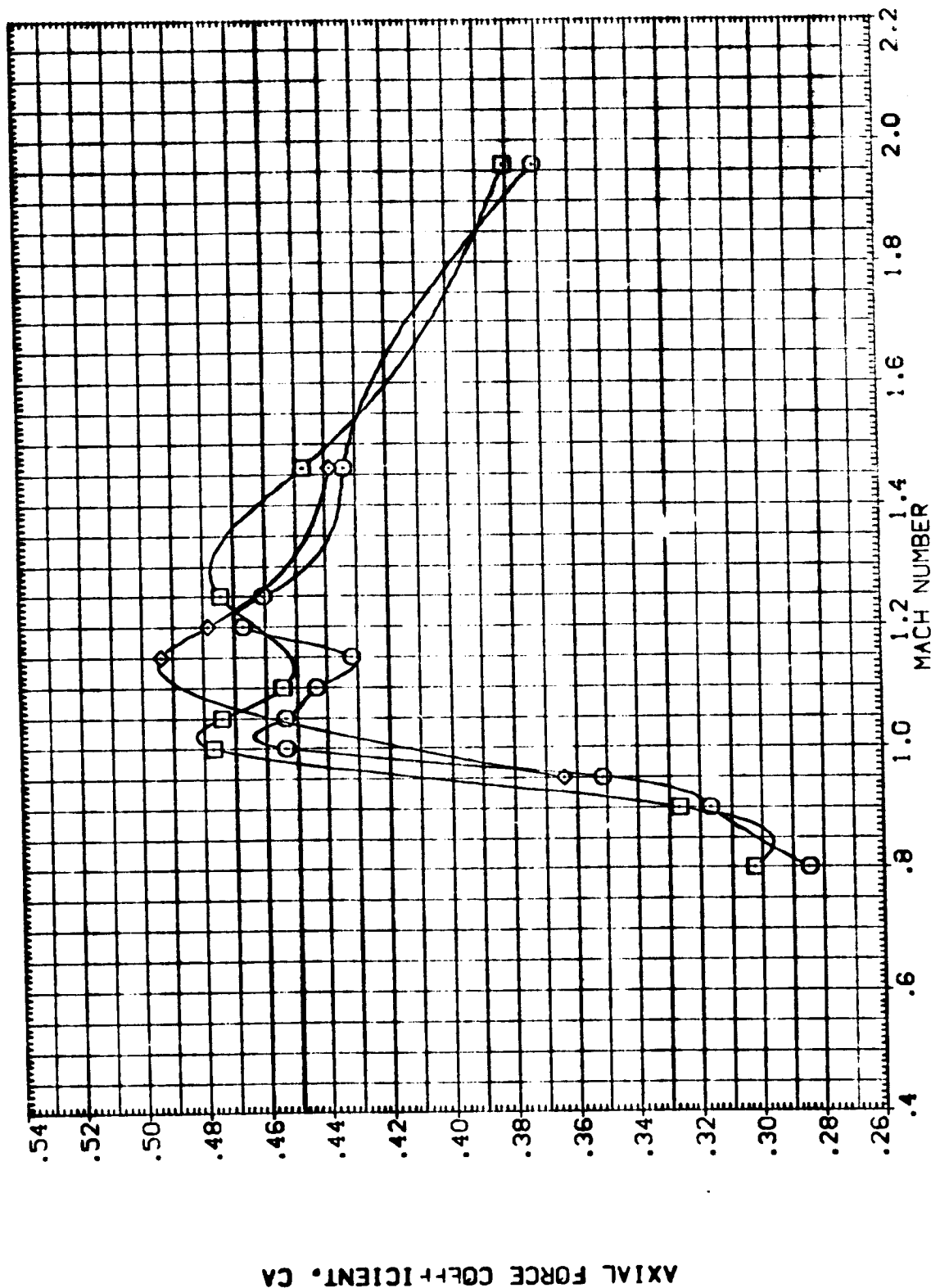


FIGURE 17 EFFECT OF FLIPPER DOOR CONFIGURATION ON VEHICLE AXIAL FORCE (770.74TS)

(E) ALPHA = 2.00



SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BETA .000
.000
.000
ORBIT .000
.000
.000
FLIPOR 20.000
40.000
20.000

DATA SET SYMB. CONFIGURATION DESCRIPTION
(N1K131) MSFC TVT610 (1A-71) 77-0.74-TS Z13
(N1K132) MSFC TVT610 (1A-71) 77-0.74-TS Z13
(N1K137) MSFC TVT610 (1A-71) 77-0.74-TS Z10

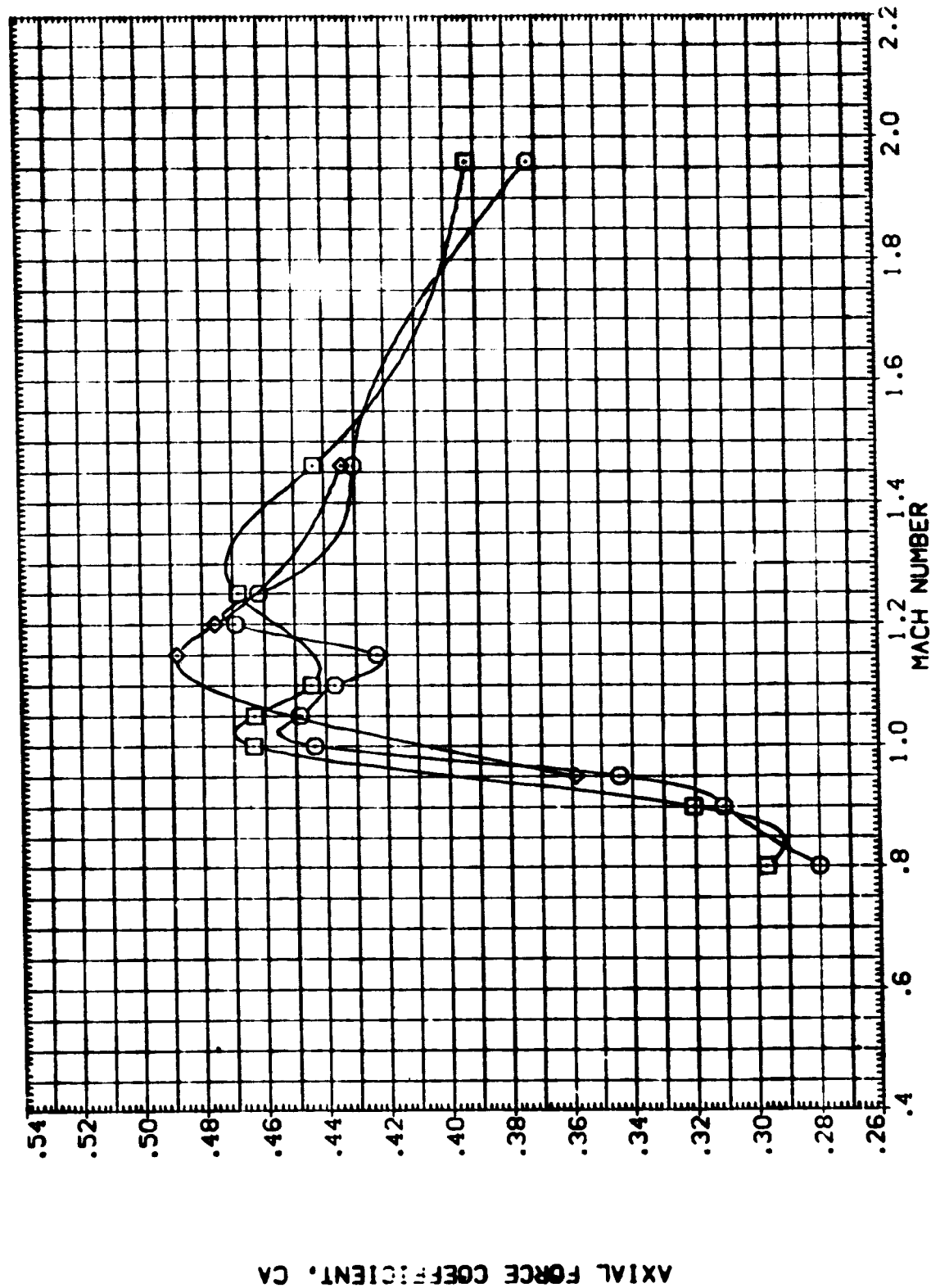


FIGURE 17 EFFECT OF FLIPPER DOOR CONFIGURATION ON VEHICLE AXIAL FORCE (770.74TS)

(F) ALPHA = 4.00

DATA SET SYMBOL: CONFIGURATION DESCRIPTION
 (N1K131) MSFC TVT610 (1A-71) 77-0.74-TS Z13
 (N1K132) MSFC TVT610 (1A-71) 77-0.74-TS Z13
 (N1K137) MSFC TVT610 (1A-71) 77-0.74-TS Z10

BETA ORB INC FLIPDR
 .000 .000 20.000
 .000 .000 40.000
 .000 .000 20.000

SEE THE ASSOCIATED DATA
 DOCUMENT FOR REFERENCE
 CHARACTERISTICS FOR
 INDIVIDUAL DATASETS

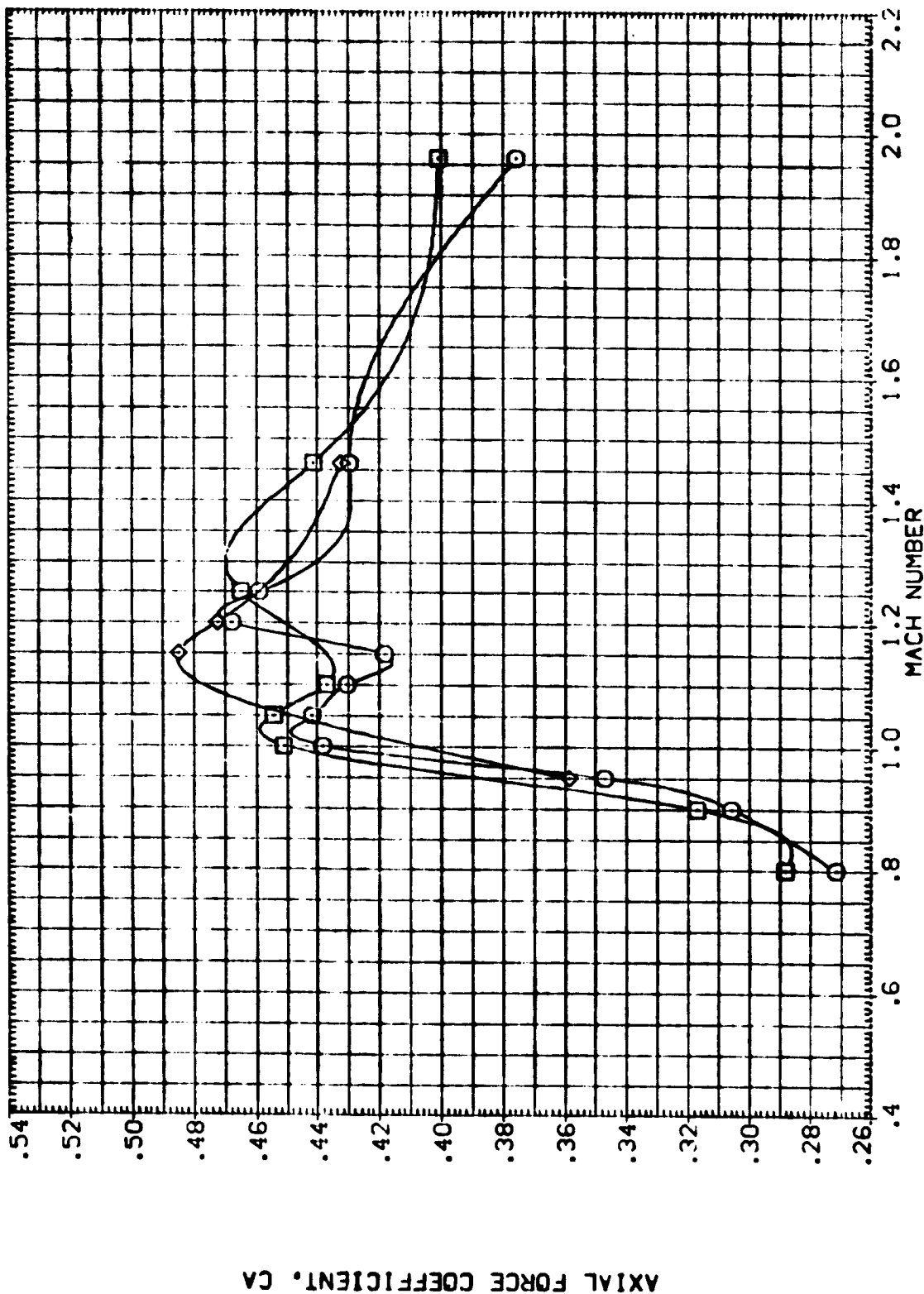


FIGURE 17 EFFECT OF FLIPPER DOOR CONFIGURATION ON VEHICLE AXIAL FORCE (770.74TS)

(G) ALPHA = 5.70

APPENDIX
TABULATED SOURCE DATA

Plotted data are available from
Data Management Services on request.

1A71 TABULATED SOURCE DATA

(RIK001) (16 APR 75)

MSFC TW610 (1A-71) 74-OTS (STEEL)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 301/ 0 RN/L = 5.86

MACH	ALPHA	CH	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.799	-7.040	-53890	.22500	.00240	-.00420	.00370	.12350	.00920	.03530	.05460	.07420
.799	-4.840	-40290	.16560	.00050	-.00310	.00310	.13020	.00910	.03450	.05390	.06990
.799	-2.600	-26750	.11480	-.00080	-.00280	.00280	.13460	.00870	.03310	.05270	.06560
.799	-4.00	-14220	.06850	-.00900	.00110	.00190	.13340	.00850	.03250	.05300	.06450
.799	1.820	-.01010	.02330	-.01000	.00160	.00180	.12970	.00850	.03230	.05310	.06530
.799	4.050	.11910	-.01640	-.01020	.00090	.00180	.12490	.00830	.03170	.05310	.06610
.799	6.290	.25350	-.06360	-.01530	.00270	.00140	.11880	.00800	.03060	.05320	.06320
.799	-.410	-.14920	.07140	-.00770	.00040	.00210	.13420	.00850	.03240	.05300	.06490

RUN NO. 302/ 1 RN/L = 6.27

MACH	ALPHA	CN	CLM	CY	CYN	CL	CAF	CNBO	CABO	CABS	CABE
.901	-7.260	-.55340	.22470	-.01340	.00600	-.00020	.13800	.01100	.04190	.06060	.07760
.901	-4.960	-.39250	.16130	-.01480	.00720	-.00100	.14620	.01040	.03960	.05620	.07200
.901	-2.730	-.25250	.10080	-.01420	.00610	-.00090	.14720	.01010	.03840	.05650	.07060
.901	-.500	-.11290	.04140	-.01320	.00460	-.00100	.14650	.01000	.03800	.05550	.06970
.901	1.740	.02430	-.01200	-.01310	.00340	-.00190	.14360	.00980	.03730	.05530	.06910
.901	3.970	.14330	-.05240	-.00840	-.00060	-.00120	.13780	.00980	.03730	.05700	.06990
.901	6.270	.27160	-.08660	-.00780	.00160	.00000	.13500	.00970	.03700	.06070	.06970
.901	-.490	-.11690	.04330	-.01150	.00340	-.00080	.14660	.01010	.03840	.05560	.06980

RUN NO. 303/ 2 RN/L = 6.52

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.998	-7.300	-.60100	.28030	-.00140	.00150	.00070	.21960	.01380	.05260	.08240	.09580
.998	-4.960	-.43700	.21500	-.00110	.00090	.00080	.22280	.01380	.05270	.07980	.09320
.998	-2.680	-.29140	.15730	-.00150	.00050	.00100	.22090	.01370	.05230	.07710	.09110
.998	-.410	-.15100	.10110	.00030	-.00040	.00130	.22700	.01400	.05340	.07630	.08880
.998	1.830	.00200	.02820	-.00140	.00080	.00090	.22010	.01430	.05430	.07300	.09070
.998	4.050	.14780	-.03820	-.00480	.00170	.00060	.22330	.01420	.05420	.07420	.08730
.998	6.360	.30320	-.10440	-.00360	.00080	.00050	.21150	.01370	.05230	.07640	.08590
.998	-.410	-.14920	.09790	-.00140	.00060	.00090	.21840	.01410	.05360	.07500	.09060

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1A7: TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 74-OTS (STEEL) (RIK001) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 304/ 1 RM/L = 6.57									
MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABS
1.052	-7.340	-60100	.27620	.00170	-.00040	.00110	.24810	.01250	.07520
1.052	-5.000	-43450	.21080	.00140	-.00080	.00110	.25000	.01230	.07660
1.052	-2.670	-28210	.15110	.00120	-.00060	.00110	.25290	.01200	.07320
1.052	-.390	-13510	.09240	.00240	-.00240	.00120	.24650	.01240	.07470
1.052	1.880	.00970	.02680	.00440	-.00340	.00100	.24300	.01260	.07920
1.052	4.120	.15790	-.04230	.00340	-.00310	.00120	.24360	.01250	.07450
1.052	6.450	.30250	-.09460	.00550	-.00430	.00060	.23440	.01270	.07380
1.052	-.370	-13620	.09450	.00230	-.00230	.00120	.24350	.01280	.08130
RUN NO. 305/ 0 RM/L = 6.64									
MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABS
1.102	-7.290	-58930	.27330	.00600	-.00240	.00120	.26320	.01090	.07630
1.102	-4.920	-43010	.21470	.00290	-.00100	.00060	.27010	.01090	.07760
1.102	-2.600	-28300	.15760	.00260	-.00310	.00050	.27270	.01150	.07800
1.102	-.300	-13310	.09650	.00290	-.00200	.00040	.27050	.01100	.06660
1.102	2.000	.01700	.03040	.00620	-.00280	.00000	.26640	.01130	.06720
1.102	4.260	.16820	-.03880	.00870	-.00390	-.00030	.26350	.01160	.06900
1.102	6.600	.31790	-.09500	.01170	.00500	-.00060	.25690	.01170	.06990
1.102	-.300	-13440	.09690	.00240	.00170	.00050	.27000	.01110	.06880
RUN NO. 306/ 1 RM/L = 6.68									
MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABS
1.248	-7.500	-58100	.24420	.00550	-.00110	.00080	.27160	.01170	.08020
1.248	-5.080	-43080	.16840	.00640	-.00020	.00050	.27530	.01170	.07780
1.248	-2.690	-22420	.10350	.00640	.00120	.00040	.28180	.01150	.07950
1.248	-.350	-06820	.04500	.00650	.00080	.00010	.27980	.01160	.07660
1.248	1.970	.06750	-.00720	.00210	-.00200	.00010	.27640	.01180	.07610
1.248	4.270	.20700	-.06460	.00130	-.00300	.00000	.27180	.01190	.06460
1.248	6.610	.35330	-.11980	.00210	-.00220	-.00040	.26600	.01230	.06640
1.248	-.320	-06280	.04170	.00710	.00260	.00020	.28210	.01140	.06160

IA71 TABULATED SOURCE DATA

(RIK001) (16 APR 75)

MSFC TMT810 (IA-71) 74-OTS (STEEL)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 318/ 0 RN/L = 6.49

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.462	-7.490	-57580	.23500	-.00200	-.00210	.00100	.30120	.01040	.03980	.05440	.05930
1.462	-5.060	-39330	.16210	-.00160	-.00290	.00090	.29820	.01030	.03920	.05310	.05980
1.462	-2.680	-22870	.09960	-.00700	.00110	.00020	.29950	.01020	.03880	.05240	.05960
1.462	-.310	-.07450	.04170	-.00930	.00120	-.00040	.30130	.01000	.03830	.05140	.05600
1.462	2.040	.07750	-.01480	-.01250	.00720	-.00080	.29820	.00990	.03780	.05020	.05760
1.462	4.330	.20660	-.06450	-.01470	.00440	-.00160	.29570	.00990	.03760	.05140	.05760
1.462	6.690	.34660	-.11550	-.01770	.00510	-.00150	.29340	.01000	.03810	.05300	.05570
1.462	-.300	-.06780	.03970	-.00980	.00150	-.00030	.30180	.01000	.03820	.05140	.05570

RUN NO. 317/ 0 RN/L = 7.06

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.961	-7.490	-52220	.20960	.00110	.00010	.00060	.28630	.00720	.02770	.03640	.04470
1.961	-5.080	-36610	.15020	-.00080	.00110	.00000	.28260	.00710	.02720	.03460	.04430
1.961	-2.720	-22880	.10050	-.00570	.00340	-.00030	.28010	.00720	.02730	.03450	.04330
1.961	-.370	-.09500	.05270	-.00840	.00470	-.00080	.27930	.00740	.02840	.03440	.04110
1.961	1.960	.04150	.00200	-.01040	.00600	-.00110	.27620	.00790	.03030	.03610	.03960
1.961	4.300	.17830	-.05600	-.01380	.00670	-.00120	.27590	.00800	.03040	.03740	.04090
1.961	6.680	.32730	-.11590	-.01690	.00830	-.00080	.28400	.00780	.02970	.03650	.03890
1.961	-.340	-.08600	.05000	-.00880	.00560	-.00100	.27180	.00750	.02850	.03460	.04060

(RIK002) (16 APR 75)

MSFC TMT610 (IA-71) 74-OTS (STEEL)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 307/ 0 RN/L = 6.58

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.047	-6.410	-10620	.06900	.31630	-.14950	.05370	.24180	.01310	.04940	.08280	.08690
1.047	-4.320	-.10950	.07440	.21210	-.10280	.03650	.25080	.01230	.04690	.08060	.08220
1.047	-2.250	-.12200	.09600	.11760	-.05950	.02050	.25340	.01230	.04680	.07980	.08060
1.047	-.190	-.13030	.09170	.01650	-.01110	.00390	.25700	.01160	.04420	.07560	.07800
1.047	1.850	-.12980	.09010	-.08280	.03940	-.01140	.26040	.01170	.04470	.07170	.07820
1.047	3.900	-.13210	.08920	-.17850	.08560	-.02720	.26240	.01220	.04660	.06850	.08130
1.047	6.000	-.12210	.08060	-.26880	.12410	-.04270	.26730	.01200	.04560	.06320	.08170
1.047	-.190	-.13570	.09240	.01720	-.01110	.00430	.25060	.01220	.04640	.07640	.08110

IA71 TABULATED SOURCE DATA

MSFC TW1610 (1A-71) 74-OTS 210

(RIK003) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 312/ 0 RN/L = 5.96

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.798	-7.090	-69290	.34570	.01360	-.01270	.00400	.17180	.00980	.03670	.05560	.07890
.798	-4.880	-56500	.29220	.01010	-.01150	.00260	.17450	.00950	.03620	.05240	.07480
.798	-2.650	-42850	.24120	.00740	-.00990	.00260	.17650	.00920	.03510	.05400	.07240
.798	-4.450	-30040	.19350	.00130	-.00680	.00170	.17620	.00880	.03360	.05450	.07020
.798	1.760	-17680	.15240	-.00240	-.00520	.00130	.17120	.00870	.03300	.05560	.07060
.798	3.980	-05570	.11640	-.00590	-.00400	.00090	.16150	.00850	.03230	.05570	.07340
.798	6.230	.08510	.08700	-.00890	-.00270	.00020	.15090	.00830	.03160	.05670	.07260
.798	-4.450	-.30510	.19620	-.00080	-.00620	.00150	.17650	.00890	.03380	.05490	.07110

RUN NO. 311/ 0 RN/L = 6.30

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.901	-7.230	-71610	.35850	-.00090	-.00350	.00070	.18400	.01080	.04100	.06030	.08940
.901	-4.930	-58480	.30150	-.00270	-.00310	.00040	.18960	.01040	.03970	.05690	.08560
.901	-2.710	-43210	.24730	-.00820	-.00010	.00010	.19360	.01000	.03800	.05840	.08520
.901	-4.70	-30310	.19690	-.01180	.00330	-.00020	.18940	.01000	.03820	.06100	.06520
.901	1.750	-16990	.14420	-.01210	.00030	-.00080	.18470	.00970	.03690	.06020	.08300
.901	3.990	-03200	.08930	-.01790	.00240	-.00160	.17570	.00950	.03630	.06200	.08100
.901	6.310	.12640	.03220	-.01650	.00040	-.00110	.16390	.00930	.03530	.06340	.08250
.901	-4.70	-.29730	.19390	-.00410	-.00420	.00010	.18980	.00960	.03650	.05950	.09390

RUN NO. 310/ 1 RN/L = 6.51

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.995	-7.230	-72030	.38330	.01260	-.00960	.00100	.27650	.01510	.05760	.08490	.10910
.995	-4.910	-57290	.32740	.00960	-.00770	.00070	.27930	.01510	.05760	.08250	.10510
.995	-2.630	-43410	.27530	.00370	-.00430	.00060	.28090	.01500	.05710	.08160	.10170
.995	-3.390	-30570	.22390	.00010	-.00330	.00040	.27160	.01460	.05550	.08050	.10600
.995	1.660	-16540	.16480	-.00200	-.00200	.00030	.27730	.01500	.05700	.08060	.10250
.995	4.120	-01020	.09250	-.00450	-.00100	-.00090	.26230	.01490	.05670	.08340	.10200
.995	6.440	.15500	.02100	-.00980	.00080	-.00060	.25640	.01450	.05540	.08350	.09650
.995	-3.380	-.30360	.22320	.00180	-.00390	.00050	.27290	.01460	.05560	.08060	.10590

IA71 TABULATED SOURCE DATA

(RIK003) (16 APR 79)

MSFC TWT610 (IA-71) 7N-OTS Z10

PARAMETRIC DATA

BETA = .000
 FLIPDR = .000
 ORBINC = .000

RUN NO. 309/ 0 RN/L = 6.59

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.053	-7.290	-70340	36430	.01270	-.00940	.00090	.31010	.01330	.05080	.07910	.09470
1.053	-4.950	-55130	30890	.00890	-.00750	.00060	.31460	.01300	.04940	.07610	.08780
1.053	-2.650	-41530	.26310	.00510	-.00360	.00020	.31710	.01280	.04860	.07490	.08330
1.053	-.360	-.28220	.21250	.00180	-.00120	.00030	.31000	.01300	.04940	.07470	.08370
1.053	1.880	-.15180	.15690	.00000	-.00280	-.00010	.29850	.01320	.05040	.07280	.08880
1.053	4.160	.01140	.08050	-.00330	-.00050	-.00080	.29670	.01280	.04850	.07040	.09190
1.053	6.500	.16540	.02110	-.00630	-.00010	-.00090	.27990	.01330	.05080	.07420	.08090
1.053	-.360	-.28430	.21400	.00190	-.00410	.00040	.30770	.01330	.05070	.07610	.08610

RUN NO. 313/ 0 RN/L = 6.66

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.109	-7.360	-70320	35630	.02110	-.01370	.00200	.31750	.01340	.05090	.07910	.09280
1.109	-4.970	-53910	.29770	.01650	-.00990	.00140	.32760	.01300	.04940	.07540	.08590
1.109	-2.650	-39420	.24520	.01520	-.01040	.00110	.32840	.01260	.04880	.07400	.08110
1.109	-.330	-.25360	.19460	.01210	-.00830	.00130	.32230	.01280	.04880	.07340	.08320
1.109	1.950	-.10330	.12820	.00670	-.00500	.00000	.31110	.01300	.04950	.07260	.09300
1.109	4.250	.05680	.05720	.00270	-.00250	-.00050	.30180	.01320	.05050	.07450	.09310
1.109	6.590	.22490	-.01050	-.00130	-.00100	-.00070	.29310	.01330	.05070	.07420	.07760
1.109	-.330	-.25030	.19220	.01170	-.00920	.00090	.32180	.01280	.04850	.07300	.08040

RUN NO. 314/ 0 RN/L = 6.72

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.250	-7.450	-.66640	.31870	.00600	-.00750	.00120	.31890	.01240	.04720	.06790	.08790
1.250	-5.010	-.46960	.23640	.00350	-.00570	.00090	.31740	.01240	.04710	.06720	.08290
1.250	-2.630	-.29050	.16220	.00080	-.00430	.00040	.31710	.01220	.04630	.06580	.07650
1.250	-.270	-.13120	.10170	.00020	-.00530	.00000	.31560	.01210	.04620	.06470	.07360
1.250	2.050	.00640	.05070	-.00210	-.00450	-.00030	.31040	.01240	.04720	.06450	.07500
1.250	4.350	.14790	-.00890	-.00290	-.00460	-.00210	.30220	.01280	.04870	.06940	.07400
1.250	6.710	.30090	-.06850	-.00790	-.00210	-.00190	.29160	.01290	.04930	.06930	.07210
1.250	-.250	-.12390	.09860	.00030	-.00530	.00030	.31580	.01190	.04550	.06420	.07220

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1A71 TABULATED SOURCE DATA

MSFC TMT610 (1A-71) 74-OTS Z10 (RIK003) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 315/ 0 RN/L = 6.49

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.472	-7.470	-6.1780	.27860	.00200	-.00480	.00110	.32620	.00990	.03770	.05250	.06590
1.472	-5.070	-4.4240	.20960	.00080	-.00540	.00050	.32290	.00970	.03700	.05120	.06420
1.472	-2.660	-2.7400	.14390	-.00160	-.00370	.00010	.31930	.00970	.03680	.05140	.06410
1.472	-3.310	-1.2080	.08550	-.00480	-.00250	.00000	.31810	.00960	.03650	.05100	.06090
1.472	2.050	.03230	.02820	-.00990	-.00030	-.00010	.31760	.00950	.03630	.05000	.06000
1.472	4.350	.16590	-.02490	-.01230	.00150	-.00090	.31360	.00950	.03630	.05060	.05890
1.472	6.700	.30900	-.08000	-.01410	.00150	-.00080	.30720	.00970	.03710	.05210	.05660
1.472	-.290	-.11190	.08220	-.00670	-.00170	.00000	.31780	.00950	.03630	.05020	.06040

RUN NO. 316/ 0 RN/L = 7.08

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.954	-7.530	-.56270	.23960	.00140	-.00090	.00000	.31340	.00770	.02950	.03680	.04560
1.954	-5.110	-.40360	.17940	-.00140	.00060	-.00030	.30840	.00760	.02910	.03510	.04530
1.954	-2.730	-.26040	.12710	-.00480	.00260	-.00070	.30290	.00770	.02930	.03550	.04460
1.954	-.370	-.12290	.07690	-.00830	.00380	-.00110	.29990	.00790	.03020	.03560	.04200
1.954	1.980	.01470	.02600	-.01040	.00530	-.00170	.29150	.00820	.03140	.03680	.04210
1.954	4.320	.15910	-.03500	-.01250	.00550	-.00140	.29510	.00810	.03100	.03750	.04030
1.954	6.660	.29590	-.09140	-.01580	.00760	-.00130	.28500	.00840	.03210	.03710	.03950
1.954	-.330	-.11150	.07390	-.00830	.00510	-.00150	.28310	.00770	.02950	.03540	.04060

MSFC TMT610 (1A-71) 74-OTS Z10

(RIK004) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 308/ 0 RN/L = 6.58

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.048	-6.420	-.22670	.16430	.31150	-.14570	.04860	.29240	.01350	.05190	.08210	.09280
1.048	-4.310	-.24450	.18230	.21320	-.10380	.03300	.30640	.01280	.04860	.07930	.08590
1.048	-2.240	-.25980	.19670	.12190	-.06380	.01950	.30910	.01270	.04840	.07890	.08390
1.048	-.180	-.27550	.20810	.02260	-.01640	.00370	.30590	.01270	.04860	.07770	.08500
1.048	1.860	-.27270	.20500	-.07530	.03260	-.01000	.30380	.01310	.04990	.07520	.08570
1.048	3.930	-.26290	.19580	-.16470	.07160	-.02370	.31820	.01230	.04680	.06860	.08320
1.048	6.030	-.25340	.18550	-.25400	.11000	-.03810	.31460	.01270	.04850	.06650	.08590
1.048	-.180	-.27490	.20780	.02420	-.01740	.00380	.30210	.01300	.04970	.07870	.08700

1A71 TABULATED SOURCE DATA

(RIK005) (16 APR 75)

MSFC TW610 (1A-71) 74-0'S 210

PARAMETRIC DATA

BETA = .000 DRBINC = .000
FLIPDR = 20.000

RUN NO. 325/ 0 RN/L = 5.91

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.799	-7.150	-62620	.28900	-.00100	-.00390	.00310	.14570	.00990	.03780	.05290	.07730
.799	-4.940	-50040	.24020	-.00010	-.00230	.00360	.14640	.00940	.03570	.05330	.07480
.799	-2.720	-36660	.19060	-.00360	-.00290	.00270	.14870	.00900	.03420	.05360	.07160
.799	-.530	-24500	.14420	-.00490	-.00220	.00230	.14780	.00860	.03280	.05380	.06950
.799	1.710	-11160	.09870	-.00450	-.00210	.00210	.14480	.00860	.03260	.05390	.06930
.799	3.940	.02110	.05550	-.01110	-.00120	.00090	.13830	.00850	.03250	.05340	.06930
.799	6.170	.16180	.00370	-.01460	.00280	.00070	.13030	.00810	.03080	.05370	.05470
.799	-.500	-.24040	.14170	-.01090	.00090	.00200	.15020	.00890	.03400	.05320	.07110

RUN NO. 324/ 1 RN/L = 6.28

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.903	-7.260	-63670	.29420	-.00480	.00100	.00060	.16330	.01110	.04250	.06070	.09050
.903	-4.980	-48310	.23690	-.00250	-.00080	.00020	.16480	.01070	.04080	.05860	.07660
.903	-2.750	-34770	.18020	-.00500	-.00020	.00000	.16500	.01010	.03870	.05920	.07430
.903	-.520	-21510	.12800	-.00320	-.00190	.00040	.16320	.00990	.03790	.05940	.07350
.903	1.720	-08480	.07610	-.00290	-.00210	.00020	.15700	.00980	.03740	.05960	.07450
.903	3.950	.06590	.01010	-.00630	-.00100	.00040	.15040	.00960	.03670	.06090	.07340
.903	6.250	.21140	-.03900	-.00390	-.00340	.00100	.14370	.00950	.03630	.06420	.07240
.903	-.500	-.21880	.12930	-.00790	.00070	.00000	.16510	.01010	.03870	.05930	.07460

RUN NO. 323/ 0 RN/L = 6.37

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.952	-7.330	-62280	.28290	-.00800	.00130	.00090	.20360	.01220	.04630	.06700	.08810
.952	-5.000	-48100	.23690	-.01070	.00360	.00030	.19590	.01140	.04330	.06070	.08280
.952	-2.740	-34900	.18900	-.01340	.00580	-.00010	.19670	.01110	.04250	.05840	.08260
.952	-.480	-21790	.14140	-.01580	.00700	-.00050	.19450	.01120	.04250	.05790	.08270
.952	1.770	-07220	.07730	-.01540	.00750	-.00130	.18980	.01130	.04310	.05820	.08300
.952	4.010	.07920	.01000	-.01960	.00970	-.00210	.18060	.01090	.04170	.05990	.08130
.952	6.290	.22460	-.04840	-.02280	.01010	-.00220	.17280	.01050	.04000	.06270	.07890
.952	-.470	-.21290	.13960	-.01350	.00570	-.00030	.19940	.01130	.04310	.05860	.08340

1A71 TABULATED SOURCE DATA

MSFC 1A71610 (1A-71) 74-QTS Z10

(RIK005) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 321/ 3 RN/L = 6.53

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.000	-7.310	-65030	.31970	.00390	-.00370	.00030	.25350	.01470	.05610	.08360	.09930
1.000	-4.980	-49290	.25960	.00390	-.00410	.00010	.25500	.01450	.05540	.08040	.09620
1.000	-2.700	-35660	.20890	.00360	-.00330	.00020	.25250	.01460	.05550	.07840	.09430
1.000	-1.440	-22050	.15540	.00270	-.00260	.00040	.25320	.01470	.05610	.07610	.09160
1.000	1.800	1800	.08840	.00160	-.00220	.00050	.24540	.01450	.05540	.07400	.09230
1.000	4.060	4060	.01890	.00040	-.00230	.00060	.24310	.01460	.05570	.07520	.09860
1.000	6.370	6370	-.05300	-.00030	-.00240	.00100	.22960	.01390	.05290	.07680	.09680
1.000	-4.30	-430	.15430	.00340	-.00300	.00030	.24700	.01460	.05560	.07610	.09360

RUN NO. 326/ 1 RN/L = 6.58

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.052	-7.380	-65560	.31920	.00770	-.00660	.00050	.27720	.01410	.05350	.08260	.09240
1.052	-5.010	-49190	.25780	.00630	-.00520	.00030	.28010	.01380	.05240	.07910	.08780
1.052	-2.710	-34750	.20420	.00680	-.00530	.00020	.28220	.01340	.05110	.07610	.08360
1.052	-1.410	-20580	.15010	.00530	-.00480	.00060	.27790	.01330	.05060	.07410	.08070
1.052	1.840	1840	.08380	.00740	-.00600	.00090	.26930	.01350	.05130	.07120	.08100
1.052	4.100	4100	.01690	.00740	-.00660	.00130	.25830	.01390	.05280	.07250	.07910
1.052	6.450	6450	-.05390	.00780	-.00710	.00190	.25440	.01310	.05000	.07120	.07270
1.052	-4.400	-4400	.15130	.00750	-.00610	.00050	.27200	.01370	.05230	.07710	.08260

RUN NO. 327/ 0 RN/L = 6.60

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.105	-7.410	-65250	.31910	.01050	-.00560	.00160	.30250	.01210	.04600	.07410	.08520
1.105	-5.030	-49010	.25810	.00840	-.00490	.00140	.30270	.01180	.04510	.07070	.08160
1.105	-2.720	-34200	.20180	.00700	-.00430	.00140	.30380	.01160	.04400	.06740	.07760
1.105	-1.410	-19600	.14460	.00520	-.00330	.00120	.29580	.01160	.04410	.06680	.07630
1.105	1.890	1890	.07840	.00500	-.00390	.00120	.28860	.01170	.04470	.06390	.07660
1.105	4.170	4170	.00960	.00150	-.00210	.00070	.28290	.01190	.04530	.06460	.07420
1.105	6.510	6510	-.05250	.00110	-.00250	.00090	.27580	.01160	.04400	.06330	.06930
1.105	-4.400	-4400	.14530	.00440	-.00170	.00130	.29690	.01190	.04550	.06770	.07800

1A71 TABULATED SOURCE DATA

(R1K005) (16 APR 75)

MSFC THT810 (1A-71) 7A-OTS 210

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 328/ 0 RN/L = 6.61

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CN80	CABO	CABS	CABE
1.151	-7.510	-.67320	.31980	.01180	-.01210	.00290	.30400	.01240	.04730	.07810	.08340
1.151	-5.120	-.50110	.25550	.01000	-.01210	.00230	.30350	.01240	.04720	.07410	.08020
1.151	-2.740	-.33790	.19410	.00810	-.01110	.00220	.30290	.01230	.04680	.07050	.07730
1.151	-.400	-.17660	.13010	.00600	-.00990	.00210	.29930	.01230	.04690	.06870	.07420
1.151	1.900	-.02070	.06100	.00600	-.00980	.00180	.29140	.01240	.04710	.05560	.07560
1.151	4.190	.13220	-.00820	.00510	-.00910	.00140	.28520	.01270	.04850	.06860	.07530
1.151	6.550	.28820	-.06830	.00300	-.00700	.00120	.27740	.01300	.04960	.07010	.07430
1.151	-.390	-.17440	.12860	.00610	-.00950	.00200	.29970	.01220	.04660	.06850	.07430

RUN NO. 329/ 0 RN/L = 6.64

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CN80	CABO	CABS	CABE
1.200	-7.510	-.63970	.29490	-.00250	-.00160	.00000	.30110	.01220	.04660	.07230	.08430
1.200	-5.080	-.44210	.21210	-.00880	.00250	-.00060	.29960	.01210	.04620	.06840	.08270
1.200	-2.710	-.26380	.13830	-.01070	.00540	-.00110	.29980	.01200	.04560	.06470	.08080
1.200	-.350	-.10280	.07470	-.01240	.00620	-.00130	.29780	.01200	.04560	.06330	.07860
1.200	1.970	.04210	.01530	-.00970	.00360	-.00110	.28900	.01210	.04610	.06400	.07920
1.200	4.270	.18500	-.04220	-.00970	.00180	-.00100	.28270	.01230	.04670	.06700	.07830
1.200	6.620	.33250	-.09660	-.01120	.00230	-.00110	.27740	.01230	.04670	.06670	.07890
1.200	-.340	-.09910	.07310	-.01100	.00500	-.00130	.29740	.01210	.04590	.06370	.07890

RUN NO. 320/ 0 RN/L = 6.71

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CN80	CABO	CABS	CABE
1.249	-7.450	-.61840	.27680	.00590	-.00540	.00140	.29280	.01220	.04650	.07010	.08410
1.249	-5.030	-.42650	.19890	.00030	-.00260	.00080	.29340	.01240	.04740	.06790	.07950
1.249	-2.630	-.25520	.13000	-.00200	-.00110	.00040	.29900	.01240	.04710	.06600	.07230
1.249	-.270	-.09980	.07300	-.00280	.00240	.00000	.29920	.01250	.04760	.06520	.07000
1.249	2.050	.04310	.01760	-.00600	-.00130	-.00060	.29370	.01260	.04810	.06520	.07220
1.249	4.350	.18140	-.03890	-.00940	.00000	-.00150	.28960	.01290	.04930	.06830	.07150
1.249	6.710	.33400	-.09780	-.01300	.00160	-.00220	.28340	.01300	.04930	.06910	.06960
1.249	-.250	-.08800	.06650	-.00560	.00000	.00000	.30130	.01210	.04590	.06380	.06780

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OF POOR QUALITY

IAT71 TABULATED SOURCE DATA

(RIK005) (16 APR 75)

MSFC TWTB10 (1A-71) 7N-OTS 210

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 319/ 0 RN/L = 6.53

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CABO	CABS	CABE
1.460	-7.490	-59810	.25330	-.00010	-.00310	.00060	.31270	.01000	.03800	.05410	.06050
1.460	-5.060	-41120	.17860	-.00060	-.00340	.00030	.30810	.00990	.03760	.05150	.06000
1.460	-2.680	-24710	.11510	-.00590	.00000	-.00020	.30860	.00990	.03770	.05120	.05920
1.460	-.320	-.09230	.05700	-.00860	.00090	-.00070	.30720	.00990	.03770	.05090	.05690
1.460	2.030	.05760	.00180	-.01150	.00220	-.00090	.30490	.00960	.03750	.04950	.05650
1.460	4.330	.19060	-.05000	-.01450	.00410	-.00150	.30570	.00970	.03710	.05000	.05420
1.460	6.690	.33230	-.10290	-.01740	.00440	-.00180	.30090	.01000	.03810	.05190	.05250
1.460	-.290	-.08670	.05710	-.00890	.00070	-.00080	.30660	.00990	.03770	.05030	.05520

RUN NO. 350/ 0 RN/L = 7.02

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CABO	CABS	CABE
1.963	-7.560	-52520	.21250	-.00230	-.00080	.00040	.29210	.00670	.02560	.03590	.04630
1.963	-5.150	-36980	.15350	-.00120	-.00080	.00000	.28620	.00680	.02600	.03300	.04570
1.963	-2.790	-.23210	.10420	-.00560	.00150	-.00030	.28150	.00690	.02630	.03360	.04430
1.963	-.450	-.09990	.05660	-.00610	.00220	-.00040	.27850	.00700	.02690	.03420	.04240
1.963	1.890	.03520	.00590	-.00670	.00310	-.00080	.27390	.00750	.02650	.03550	.04220
1.963	4.210	.17310	-.05260	-.00840	.00310	-.00060	.27960	.00740	.02830	.03620	.04130
1.963	6.560	.31390	-.11000	-.00920	.00420	-.00050	.27690	.00730	.02790	.03470	.03990
1.963	-.430	-.09310	.05440	-.00690	.00260	-.00070	.27460	.00700	.02690	.03420	.04220

(RIK006) (16 APR 75)

MSFC TWTB10 (1A-71) 7N-OTS 210

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 331/ 0 RN/L = 6.25

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNO	CABO	CABS	CABE
.899	-6.580	-.20700	.12420	.29540	-.13330	.04490	.17100	.01170	.04470	.07100	.06280
.899	-4.420	-.21670	.13260	.19910	-.09170	.03020	.17680	.01130	.04310	.06740	.08030
.899	-2.270	-.22640	.13990	.10600	-.05110	.01620	.17870	.01090	.04140	.06490	.07810
.899	-.140	-.23450	.14490	.01210	-.00890	.00340	.17700	.01080	.04120	.06160	.07850
.899	2.000	-.22740	.14050	-.08170	.03570	-.00900	.18510	.01070	.04080	.05820	.07580
.899	4.130	-.22330	.13760	-.16540	.07100	-.02070	.18750	.01110	.04220	.05560	.07690
.899	6.290	-.21610	.13050	-.25680	.11150	-.03510	.18500	.01150	.04380	.05500	.07800
.899	-.120	-.23360	.14460	.01390	-.00970	.00350	.17680	.01090	.04140	.06150	.07650

(RIK006) (16 APR 75)

MSFC TW610 (1A-71) 74-OTS Z10

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 330/ 0 RN/L = 6.53

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.050	-6.670	-1.6070	.11020	.30980	-.14030	.05140	.28420	.01320	.05020	.08160	.08560
1.050	-4.460	-1.17670	.12750	.21240	-.10050	.03530	.27470	.01240	.04740	.07820	.08200
1.050	-2.300	-1.19090	.14160	.11920	-.05980	.01980	.27700	.01260	.04790	.07730	.08260
1.050	-1.150	-2.0260	.15130	.02020	-.01290	.00370	.27230	.01320	.05010	.07750	.08260
1.050	2.000	-1.9170	.14200	-.07830	.03590	-.01110	.28720	.01210	.04620	.07700	.07730
1.050	4.150	-1.9080	.13800	-.17110	.07950	-.02680	.28470	.01270	.04850	.06920	.08190
1.050	6.310	-1.7220	.12130	-.26020	.11660	-.04240	.28750	.01250	.04760	.06500	.08130
1.050	-1.130	-2.0110	.15070	.02010	-.01280	.00380	.27570	.01280	.04880	.07580	.08080

RUN NO. 332/ 1 RN/L = 6.67

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.251	-6.750	-1.10830	.06730	.28650	-.11690	.05070	.31400	.00680	.02610	.04850	.04580
1.251	-4.540	-1.11470	.07820	.18310	-.07430	.03320	.31510	.00640	.02440	.04820	.04500
1.251	-2.330	-1.12010	.08580	.09380	-.03910	.01680	.31730	.00630	.02410	.04880	.04430
1.251	-1.150	-1.12750	.09080	.00600	-.00260	.00170	.31750	.00640	.02440	.04740	.04150
1.251	2.020	-1.12880	.09350	-.07580	.03000	-.01240	.32550	.00650	.02470	.04540	.03980
1.251	4.200	-1.13540	.09510	-.15870	.06260	-.02740	.32750	.00700	.02660	.04250	.04270
1.251	6.390	-1.12680	.08500	-.24980	.09930	-.04360	.32750	.00700	.02670	.04000	.04590
1.251	-1.150	-1.11600	.08170	.00490	-.00200	.00150	.31900	.00610	.02340	.04480	.04040

RUN NO. 351/ 0 RN/L = 6.54

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.460	-6.780	-1.08790	.04790	.31020	-.13310	.05030	.30220	.00990	.03790	.05110	.06690
1.460	-4.530	-1.08870	.05140	.20000	-.08620	.03250	.30170	.00960	.03650	.05080	.05300
1.460	-2.330	-1.09160	.05510	.10430	-.04740	.01660	.30260	.00960	.03660	.05040	.05310
1.460	-1.130	-1.08930	.05510	.01950	-.01210	.00270	.30090	.00950	.03600	.05110	.06280
1.460	2.060	-1.08770	.05360	-.07200	.02320	-.01100	.30300	.00990	.03780	.05050	.06220
1.460	4.230	-1.08670	.05130	-.16210	.06050	-.02560	.30760	.00990	.03770	.04900	.06120
1.460	6.460	-1.08950	.05040	-.26160	.10210	-.04220	.30790	.01010	.03850	.04680	.06370
1.460	-1.140	-1.09480	.05650	.01430	-.01070	.00240	.30110	.00930	.03550	.04950	.06070

1A71 TABULATED SOURCE DATA

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MSFC TMT610 (1A-71) 7N-OTS 210

(R1K007) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 338/ 0 RN/L = 6.39

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CMB	CABO	CABS	CABE
.950	-7.300	-54200	.21830	-.01820	.00710	-.00070	.17080	.01190	.04540	.06310	.08390
.950	-4.980	-38750	.16150	-.01570	.00680	-.00080	.17410	.01150	.04370	.05870	.07940
.950	-2.720	-25610	.11300	-.01950	.00960	-.00080	.17460	.01130	.04300	.05660	.07630
.950	-1.470	-11100	.04860	-.02110	.01050	-.00150	.16710	.01090	.04160	.05410	.07340
.950	1.780	.04070	-.02040	-.01390	.00610	-.00110	.16350	.01090	.04140	.05440	.07370
.950	4.030	.16680	-.06740	-.02000	.00910	-.00180	.16530	.01090	.04150	.05650	.07440
.950	6.300	.29820	-.11400	-.02050	.00790	-.00100	.15650	.01060	.04030	.05980	.07430
.950	-1.460	-11770	.05800	-.02140	.01080	-.00110	.17330	.01130	.04320	.05460	.07540

RUN NO. 339/ 0 RN/L = 6.67

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CMB	CABO	CABS	CABE
1.149	-7.480	-62110	.27890	.00730	-.00810	.00180	.26750	.01270	.04850	.08040	.08310
1.149	-5.080	-44600	.21250	.00540	-.00740	.00140	.26790	.01250	.04770	.07690	.08020
1.149	-2.720	-27910	.14660	.00520	-.00730	.00130	.27340	.01230	.04700	.07240	.07700
1.149	-1.380	-11960	.08250	.00450	-.00740	.00140	.27370	.01240	.04710	.07090	.07570
1.149	1.910	.03290	.01650	.00630	-.00800	.00140	.27090	.01250	.04770	.06800	.07770
1.149	4.220	.17820	-.04700	.00720	-.00850	.00100	.26620	.01280	.04880	.07070	.07630
1.149	6.560	.33130	-.10450	.00670	-.00870	.00130	.25990	.01300	.04960	.07160	.07510
1.149	-.370	-11810	.08320	.00570	-.00900	.00150	.27240	.01230	.04680	.07070	.07520

RUN NO. 340/ 0 RN/L = 6.66

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CMB	CABO	CABS	CABE
1.201	-7.500	-58600	.24920	-.00670	.00010	-.00060	.27130	.01240	.04740	.07310	.08200
1.201	-5.070	-39550	.17160	-.00840	.00180	-.00070	.27570	.01230	.04670	.06980	.08030
1.201	-2.710	-22370	.10180	-.00870	.00330	-.00110	.28210	.01210	.04600	.06540	.07810
1.201	-1.340	-06050	.03800	-.00940	.00380	-.00120	.28060	.01230	.04670	.06570	.07800
1.201	1.960	.07690	-.01670	-.00950	.00410	-.00170	.27810	.01210	.04620	.06370	.07720
1.201	4.280	.22100	-.07450	-.00710	.00040	-.00140	.27350	.01230	.04700	.06610	.07660
1.201	6.620	.36500	-.12670	-.00870	.00100	-.00150	.26920	.01230	.04700	.06530	.07450
1.201	-.320	-06070	.03900	-.01090	.00440	-.00170	.28290	.01200	.04580	.06400	.07680

(RIK007) (10 APR 75)

REF ID: A7010 (1A-71) 74-019 Z10

PARAMETRIC DATA

BETA = .000 ORGINC = .000
FLIPOR = .000

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CMB	CAB	CABE
1.251	-7.440	-5.7660	2.120	.00350	..00310	.00140	.26230	.01190	.04530	.07050
1.251	-5.030	-3.9060	1.6790	-.00180	-.00050	.00070	.28490	.01200	.04580	.07090
1.251	-2.630	-.22210	1.0190	-.00570	.00140	.00000	.29190	.01200	.04570	.06590
1.251	-.260	-.06720	.04330	-.00700	.00060	-.00010	.29260	.01210	.04520	.06570
1.251	2.070	.07300	-.00860	-.00890	.00060	-.00050	.28610	.01230	.04580	.06630
1.251	4.370	2.1240	-.06540	-.01140	.00130	-.00150	.28390	.01240	.04720	.06760
1.251	6.710	36.080	-.12160	-.01370	.00240	-.00180	.27470	.01280	.04680	.06780
1.251	-.05660	.03940	-.00720	.00140	-.00020	-.00020	.29460	.01170	.04470	.06360

(RIK000) (18 APR 75)

MSFC TWT610 (1A-71) 74-015 210

PARAMETRIC DATA

ALPHA =	.000	ORGINC =	.000
FLIPOR =	.000		

	MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CMB	CABO	CAGS	CAGE
	.903	-6.570	-.10080	.03740	.30880	-.14610	.04480	.14690	.01190	.04530	.06950	.08060
	.903	-4.430	-.09730	.03520	.20840	-.10130	.03010	.15330	.01170	.04440	.06540	.07680
	.903	-2.270	-.10050	.03660	.11000	-.05630	.01530	.15710	.01090	.04170	.06070	.07400
	.903	-1.140	-.10060	.03610	.01220	-.00900	.00210	.15830	.01070	.04060	.05700	.07330
	.903	1.990	-.09700	.03270	-.08630	.04050	-.01030	.16410	.01080	.04110	.05300	.07290
	.903	4.120	-.09360	.03090	-.17710	.08270	-.02350	.17160	.01100	.04190	.05030	.07370
	.903	6.260	-.10010	.03570	-.27290	.12700	-.03780	.16790	.01170	.04450	.05050	.07740
	.903	-.140	-.10020	.03550	.01390	-.00980	.00260	.16020	.01070	.04080	.05700	.07370

PN/L = 8.41

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CN80	CAB0	CAB5	CABE
.953	-6.590	-.10220	.04910	.31150	-.14950	.04910	.17810	.01270	.04820	.07340	.08650
.953	-4.440	-.09920	.04900	.20640	-.09930	.03270	.18470	.01230	.04670	.07070	.08210
.953	-2.280	-.10760	.05540	.11070	-.05540	.01720	.18750	.01200	.04570	.07920	.08250
.953	-.140	-.12180	.06510	.01220	-.00780	.00260	.18370	.01220	.04640	.06380	.07960
.953	1.980	-.10780	.05360	.08760	.04230	-.01200	.18950	.01190	.04530	.05930	.07980
.953	4.110	-.10340	.05080	-.17840	.08270	-.02520	.19810	.01190	.04550	.05510	.08190
.953	6.270	-.10510	.05000	-.27170	.12740	-.04130	.19780	.01220	.04670	.05310	.08130
.953	-.140	-.12190	.06590	.01370	-.00880	.00260	.18680	.01190	.04530	.06290	.08130

(RIK008) (18 APR 75)

MSFC TWT610 (1A-71) 74-OTS Z10

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 353/ 0 RN/L = 6.50

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.993	-6.630	-.10600	.06500	.31920	-.15200	.05310	.22270	.01410	.05350	.08460	.09290
.993	-4.450	-.11010	.07200	.21830	-.10630	.03670	.22940	.01390	.05290	.08190	.08980
.993	-2.290	-.12370	.08340	.12320	-.06330	.02100	.22610	.01400	.05320	.08160	.08990
.993	-.150	-.13790	.09200	.02100	-.01320	.00450	.21980	.01390	.05280	.07820	.08950
.993	1.960	-.12610	.08290	-.08600	.04460	-.01120	.22510	.01340	.05110	.07360	.08790
.993	4.100	-.12170	.08190	-.17640	.08730	-.02640	.23830	.01360	.05170	.07170	.08840
.993	6.260	-.11540	.07440	-.27040	.13030	-.04160	.23360	.01390	.05280	.06830	.09160
.993	-.150	-.13880	.09240	.02170	-.01390	.00440	.21670	.01410	.05370	.07830	.09190

RUN NO. 354/ 0 RN/L = 6.65

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.100	-6.680	-.08450	.05450	.31290	-.14360	.05400	.26720	.01170	.04450	.07290	.08030
1.100	-4.470	-.09730	.06710	.21110	-.10100	.03660	.27120	.01170	.04450	.07160	.07730
1.100	-2.300	-.10670	.07780	.11490	-.05870	.02000	.27100	.01160	.04430	.07050	.07820
1.100	-.140	-.11510	.08550	.01670	-.01170	.00340	.27250	.01130	.04290	.06870	.07610
1.100	1.990	-.11620	.08440	-.07800	.03430	-.01160	.27530	.01160	.04440	.06740	.07590
1.100	4.160	-.11300	.08100	-.16880	.07670	-.02750	.28080	.01180	.04500	.06400	.07720
1.100	6.330	-.10370	.07250	-.26350	.11780	-.04400	.28190	.01190	.04540	.06000	.08040
1.100	-.120	-.11520	.08580	.01820	-.01230	.00380	.27160	.01140	.04330	.06890	.07630

RUN NO. 355/ 0 RN/L = 6.67

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.152	-6.750	-.07520	.03960	.31030	-.13190	.05390	.27140	.01260	.04790	.07540	.08220
1.152	-4.520	-.08410	.04990	.20590	-.09010	.03630	.27300	.01230	.04700	.07480	.08010
1.152	-2.330	-.09090	.05900	.11010	-.04920	.01990	.27400	.01210	.04600	.07400	.07820
1.152	-.170	-.10150	.06530	.01570	-.00670	.00290	.27160	.01210	.04620	.07500	.07450
1.152	2.020	-.09580	.05310	-.07820	.03480	-.01240	.27880	.01220	.04660	.07180	.07490
1.152	4.190	-.09540	.06040	-.16900	.07380	-.02890	.28100	.01260	.04810	.07010	.07910
1.152	6.390	-.08900	.05300	-.26490	.11350	-.04560	.28170	.01230	.04910	.06730	.08200
1.152	-.140	-.10040	.06590	.01400	-.00520	.00300	.27150	.01220	.04650	.07490	.07520



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IA71 TABULATED SOURCE DATA

(RIK008) (18 APR 75)

MSFC TMT810 (IA-71) 74-OTS Z10

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 334/ 0 RN/L = 6.69											
MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.197	-6.690	-.08280	.06050	.29360	-.13110	.05160	.29270	.00860	.03260	.05720	.06110
1.197	-4.480	-.10310	.07190	.19590	-.09060	.03490	.29850	.00810	.03100	.05670	.05680
1.197	-2.310	-.11360	.08280	.10710	-.05200	.01900	.29960	.00800	.03050	.05660	.05610
1.197	-.150	-.12090	.08960	.01300	-.00770	.00290	.29670	.00820	.03150	.05720	.05330
1.197	2.010	-.11680	.08610	-.07860	.03580	-.01240	.30330	.00800	.03060	.05410	.05240
1.197	4.150	-.11670	.08280	-.16650	.07560	-.02810	.30670	.00820	.03120	.05120	.05480
1.197	6.340	-.10800	.07490	-.25610	.11440	-.04410	.30610	.00850	.03230	.04820	.05820
1.197	-.120	-.12370	.09120	.01240	-.00780	.00270	.29990	.00790	.03010	.05520	.05060

RUN NO. 333/ 0 RN/L = 6.68											
MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.249	-6.750	-.07470	.03940	.29070	-.12100	.05110	.29890	.00650	.02480	.04840	.04490
1.249	-4.530	-.07430	.04470	.18810	-.08040	.03370	.29740	.00600	.02300	.04840	.04430
1.249	-2.320	-.07820	.05000	.09800	-.04340	.01710	.29900	.00570	.02170	.04850	.04250
1.249	-.150	-.08150	.05360	.00760	-.00400	.00190	.30050	.00570	.02170	.04730	.03960
1.249	2.010	-.08560	.05730	-.07780	.03210	-.01230	.30540	.00590	.02250	.04510	.03930
1.249	4.190	-.09010	.05900	-.16310	.06730	-.02790	.30940	.00640	.02430	.04240	.04180
1.249	6.400	-.08640	.05270	-.25380	.10420	-.04390	.30780	.00590	.02640	.04110	.04820
1.249	-.140	-.08330	.05450	.00700	-.00400	.00180	.30040	.00570	.02180	.04700	.03980

RUN NO. 332/ 0 RN/L = 6.54											
MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.458	-6.790	-.06360	.02530	.30750	-.12870	.05000	.29520	.00960	.03650	.05000	.06430
1.458	-4.540	-.06490	.02890	.19800	-.08340	.03220	.29650	.00940	.03590	.04960	.06110
1.458	-2.330	-.06530	.03220	.10190	-.04480	.01640	.29700	.00930	.03530	.04930	.06090
1.458	-.140	-.06540	.03230	.01230	-.00840	.00270	.29630	.00920	.03490	.04980	.06030
1.458	2.040	-.06400	.03250	-.07580	.02720	-.01080	.29880	.00950	.03600	.04980	.06060
1.458	4.230	-.06400	.03330	-.16450	.06270	-.02570	.29790	.01000	.03800	.04910	.06110
1.458	6.460	-.06380	.03110	-.26110	.10190	-.04180	.29710	.01020	.03880	.04740	.06350
1.458	-.120	-.06670	.03360	.01320	-.00880	.00250	.29650	.00910	.03490	.04980	.06010

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OF POOR QUALITY

1A71 TABULATED SOURCE DATA

(RIK009) (16 APR 75)

MSFC TMT610 (1A-71) 7N-OTS 210

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO. 347/ 0 RN/L = 6.60

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.047	-6.670	-.12100	.07930	.31510	-.14380	.05220	.25300	.01310	.04990	.08400	.08450
1.047	-4.470	-.13910	.09630	.21580	-.10260	.03570	.25850	.01300	.04940	.08380	.08270
1.047	-2.300	-.15490	.11120	.12230	-.06210	.02060	.26070	.01310	.04980	.08180	.08330
1.047	-1.150	-.16420	.12010	.02350	-.01530	.00420	.26050	.01310	.05010	.08060	.08150
1.047	1.980	-.15980	.11540	-.07580	.03520	-.01080	.26530	.01310	.04970	.07680	.08110
1.047	4.130	-.14920	.10550	-.16760	.07630	-.02620	.27860	.01230	.04700	.07000	.07840
1.047	6.310	-.13990	.09640	-.25960	.11670	-.04200	.27270	.01280	.04690	.06900	.08280
1.047	-.150	-.16360	.12000	.02380	-.01600	.00430	.26060	.01310	.04980	.08020	.08120

MSFC TMT610 (1A-71) 77-0, 7N-TS

(RIK010) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO. 345/ 0 RN/L = 5.94

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.799	-7.130	-.57500	.24950	-.00680	-.00050	.00270	.13090	.00980	.03730	.05380	.07530
.799	-4.920	-.44770	.19770	-.00290	-.00160	.00240	.13650	.00960	.03660	.05300	.07190
.799	-2.710	-.31530	.14860	-.00700	.00020	.00190	.14120	.00910	.03480	.05200	.06950
.799	-.510	-.18910	.09940	-.00890	.00080	.00130	.14030	.00900	.03440	.05170	.06710
.799	1.720	-.05820	.05440	-.00920	.00050	.00100	.13530	.00910	.03470	.05160	.06870
.799	3.960	.07430	.01130	-.01250	.00180	.00080	.13080	.00900	.03440	.05220	.06580
.799	6.180	.21670	-.04200	-.01460	.00270	.00080	.12040	.00890	.03380	.05350	.06370
.799	-.490	-.18990	.10030	-.01030	.00160	.00120	.14070	.00920	.03510	.05190	.06720

RUN NO. 344/ 0 RN/L = 6.29

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.907	-7.270	-.56890	.25620	-.01270	.00490	.00030	.15880	.01130	.04300	.05790	.08020
.907	-4.970	-.43640	.20030	-.01210	.00450	-.00050	.16110	.01110	.04250	.05570	.07710
.907	-2.740	-.30330	.14400	-.01400	.00520	-.00060	.16380	.01050	.04000	.05530	.07530
.907	-.510	-.16620	.08770	-.01660	.00580	-.00100	.16170	.01020	.03890	.05490	.07330
.907	1.740	-.02780	.03050	-.01540	.00600	-.00170	.15890	.01000	.03830	.05360	.07250
.907	3.980	.11740	-.03120	-.01790	.00630	-.00140	.15120	.00990	.03790	.05580	.07180
.907	6.260	.24900	-.07040	-.01660	.00420	-.00030	.14580	.00980	.03750	.05800	.07160
.907	-.490	-.16910	.06930	-.01130	.00340	-.00080	.16300	.01030	.03940	.05500	.07340

(RIK010) (18 APR 75)

MSFC TWT610 (1A-71) 77-0,74-TS

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO. 343/ 0 RN/L = 5.48

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CNBO	CABO	CABS	CABE
.995	-7.300	-63450	.30650	.00180	-.00270	.00060	.23420	.01540	.05880	.08600	.10050
.995	-4.970	-47470	.24340	.00270	-.00330	.00050	.23580	.01540	.05860	.08380	.09800
.995	-2.690	-33200	.18870	.00180	-.00260	.00070	.23440	.01520	.05800	.08180	.09580
.995	-.430	-19620	.13490	-.00080	-.00140	.00070	.23820	.01530	.05830	.08090	.09230
.995	1.810	-.04700	.06460	-.00150	-.00090	.00050	.23010	.01500	.05720	.07850	.09190
.995	4.070	.10480	-.00470	-.00360	.00090	-.00020	.22780	.01510	.05760	.07970	.09000
.995	6.370	.26790	-.07610	-.00720	.00160	.00030	.21670	.01450	.05510	.08160	.08840
.995	-.420	-.19000	.13080	-.00110	-.00140	.00060	.23470	.01450	.05660	.07960	.09150

RUN NO. 346/ 0 RN/L = 6.59

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CNBO	CABO	CABS	CABE
1.045	-7.350	-63100	.30140	.00240	-.00240	.00030	.26150	.01430	.05460	.08290	.09250
1.045	-5.010	-47300	.24100	.00100	-.00150	.00030	.26500	.01420	.05400	.07980	.08880
1.045	-2.700	-32330	.18440	.00050	-.00130	.00010	.26590	.01390	.05300	.07750	.08460
1.045	-.410	-18450	.13100	-.00090	-.00120	.00050	.26260	.01380	.05250	.07640	.08170
1.045	1.840	-.03760	.06460	-.00140	-.00050	.00000	.25270	.01410	.05350	.07400	.08280
1.045	4.110	.12150	-.01170	-.00190	.00080	-.00030	.25380	.01340	.05090	.07130	.07640
1.045	6.450	.27210	-.06840	-.00190	.00010	-.00050	.24370	.01350	.05130	.07390	.07550
1.045	-.400	-.18110	.12950	-.00140	-.00080	.00040	.26340	.01380	.05250	.07650	.08160

RUN NO. 342/ 0 RN/L = 6.64

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CNBO	CABO	CABS	CABE
1.106	-7.470	-64670	.29590	.00660	-.00700	.00200	.26880	.01390	.05290	.08170	.09100
1.106	-5.080	-47320	.23040	.00620	-.00640	.00120	.27040	.01370	.05220	.07910	.08760
1.106	-2.740	-31180	.16760	.00600	-.00550	.00110	.27330	.01360	.05170	.07590	.08420
1.106	-.400	-15390	.10780	.00280	-.00270	.00080	.27390	.01350	.05160	.07390	.08310
1.106	1.910	-.00520	.04490	.00200	-.00240	.00080	.26550	.01360	.05200	.07160	.08380
1.106	4.200	.14490	-.02030	.00170	-.00280	.00030	.26020	.01360	.05170	.07170	.08180
1.106	6.550	.30010	-.07640	.00100	-.00250	.00090	.25470	.01380	.05270	.07310	.08000
1.106	-.380	-.15240	.10640	.00190	-.00210	.00080	.27070	.01370	.05220	.07460	.08440

IA71 TABULATED SOURCE DATA

MSPC TMT810 (IA-71) 77-0.74-TS

(RIK101) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORIGIN = .000
FLIPOR = 10.000

RUN NO. 341/ 0 RN/L = 6.89

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.250	-7.510	-0.0950	.26850	-.00720	.00090	.00020	.28940	.01300	.04940	.07320	.08440
1.250	-5.080	-.41630	.19210	-.00690	.00270	.00010	.29090	.01310	.04980	.06980	.08150
1.250	-2.710	-.25130	.12720	-.01030	.00460	-.00010	.29410	.01320	.05050	.06720	.07940
1.250	-.350	-.09800	.06580	-.00990	.00380	-.00040	.29320	.01340	.05120	.06710	.07970
1.250	1.980	.04820	.01070	-.00910	.00260	-.00050	.28770	.01360	.05200	.06710	.08000
1.250	4.280	.18950	-.04820	-.00780	.00090	-.00080	.28140	.01400	.05340	.07040	.08030
1.250	6.620	.34290	-.10880	-.01030	.00250	-.00120	.27460	.01430	.05460	.07210	.08040
1.250	-.310	-.08850	.06590	-.00980	.00390	-.00050	.29370	.01340	.05100	.06700	.07960

RUN NO. 348/ 0 RN/L = 6.53

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.463	-7.570	-.57390	.23460	-.00990	.00100	.00020	.30200	.00940	.03590	.05340	.06370
1.463	-5.140	-.39260	.16120	-.00650	.00010	.00030	.30130	.00950	.03610	.04820	.06180
1.463	-2.760	-.22780	.09720	-.00810	.00090	-.00020	.29960	.00960	.03650	.04850	.06220
1.463	-.400	-.07510	.04150	-.00990	.00240	-.00050	.29710	.00970	.03690	.04780	.06230
1.463	1.980	.07510	-.01250	-.01140	.00360	-.00060	.29480	.00980	.03740	.04730	.06170
1.463	4.280	.20390	-.06230	-.01220	.00360	-.00110	.29470	.00950	.03620	.04760	.05940
1.463	6.610	.34310	-.11410	-.01220	.00350	-.00120	.28950	.00960	.03680	.04930	.05870
1.463	-.380	-.07090	.04220	-.00930	.00150	-.00050	.29510	.00970	.03690	.04690	.06130

RUN NO. 349/ 0 RN/L = 7.05

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.956	-7.600	-.52780	.20790	-.00490	.00050	.00010	.29360	.00660	.02540	.03610	.04550
1.956	-5.180	-.37010	.14860	-.00480	.00100	-.00010	.28980	.00670	.02550	.03270	.04530
1.956	-2.810	-.23100	.09980	-.00600	.00240	.00000	.28460	.00680	.02600	.03360	.04410
1.956	-.460	-.09590	.05140	-.00740	.00330	-.00040	.28200	.00700	.02680	.03370	.04240
1.956	1.890	.03820	.00090	-.00770	.00350	-.00060	.28080	.00730	.02800	.03500	.04160
1.956	4.200	.17430	-.05620	-.00930	.00400	-.00080	.27710	.00730	.02780	.03550	.04090
1.956	6.560	.31440	-.11270	-.00880	.00440	-.00030	.26970	.00730	.02790	.03510	.04140
1.956	-.440	-.09010	.04890	-.00750	.00310	-.00050	.27720	.00690	.02620	.03350	.04180

1A71 TABULATED SOURCE DATA

(RIK11) (16 APR 75)

MSFC WING10 (1A-71) 77-0.74-TS

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

MACH	ALPHA	RUN NO.			RN/L = 4.94			CAF	CN80	CABO	CABS	CABE
		CN	CLM	CY	CYN	CBL						
.599	-6.830	-50450	.20920	.00580	-.00430	.00260	.09540	.00940	.03580	.05260	.09710	
.599	-4.690	-38680	.15890	.00510	-.00480	.00160	.10240	.00940	.03580	.05060	.08940	
.599	-2.550	-26410	.11520	.00290	-.00380	.00180	.10620	.00910	.03460	.05060	.08410	
.599	-.420	-14230	.06910	.00080	-.00370	.00150	.10930	.00890	.03400	.05020	.07970	
.599	1.710	-01700	.02730	-.00960	.00160	.00090	.11190	.00880	.03350	.04910	.07370	
.599	3.850	.09930	-.01170	-.01210	.00210	.00130	.10800	.00880	.03340	.04720	.07280	
.599	6.010	.22300	-.05430	-.01360	.00160	.00160	.10050	.00880	.03360	.04810	.06990	
.599	-.430	-.14750	.07150	-.00110	-.00240	.00140	.11050	.00890	.03400	.05010	.07910	

MACH	ALPHA	RUN NO.			2 / 1			RN/L = 5.95			CAF	CN80	CABO	CABS	CABE
		CN	CLM	CY	CYN	CBL									
.798	-6.990	-51620	.20740	.00070	-.00180	.00320	.13830	.01000	.03820	.05620	.06690				
.798	-4.780	-38860	.15130	-.00460	.00030	.00190	.14150	.00980	.03740	.05490	.06600				
.798	-2.560	-25110	.10010	-.00950	.00230	.00110	.14440	.00910	.03480	.05230	.06330				
.798	-.370	-12720	.05180	-.00870	.00100	.00050	.14400	.00900	.03440	.05180	.06320				
.798	1.870	.01520	.00340	-.01110	.00230	.00020	.14020	.00890	.03400	.05150	.06280				
.798	4.120	.14370	-.03720	-.01670	.00420	-.00060	.13540	.00880	.03370	.05150	.06300				
.798	6.340	.27580	-.08270	-.02200	.00590	-.00070	.12890	.00850	.03230	.05220	.06150				
.798	-.360	-.12600	.05200	-.01220	.00320	.00020	.14410	.00910	.03460	.05210	.06360				

MACH	ALPHA	RUN NO.			3 / 1			RN/L = 6.30			CAF	CN80	CABO	CABS	CABE
		CN	CLM	CY	CYN	CBL									
.900	-7.120	-53100	.21190	-.00480	.00150	.00280	.16560	.01090	.04170	.06170	.06870				
.900	-4.810	-36590	.14530	-.00500	.00090	.00220	.16760	.01060	.04020	.05790	.06940				
.900	-2.610	-22560	.07810	-.01230	.00380	.00000	.16650	.01000	.03830	.05550	.07000				
.900	-.370	-.08280	.01680	-.01750	.00660	-.00080	.16640	.00960	.03660	.05290	.06860				
.900	1.860	.06210	-.04320	-.02080	.00750	-.00270	.15980	.00980	.03720	.05380	.06830				
.900	4.120	.19860	-.09320	-.02210	.00620	-.00490	.15850	.00950	.03640	.05550	.06870				
.900	6.420	.32210	-.12470	-.02110	.00480	-.00310	.15230	.00940	.03570	.05750	.07010				
.900	-.360	-.07480	.01320	-.01210	.00340	.00050	.16710	.01040	.03950	.05720	.07300				

(RIK011) (16 APR 75)

MSFC TWT610 (1A-71) 77-0.74-TS

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 4/ 0 RN/L = 6.51

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.994	-7.140	-57810	.27030	.00960	-.00390	.00350	.24980	.01350	.05130	.07860	.08120
.994	-4.810	-41580	.20410	.00600	-.00380	.00290	.24990	.01330	.05070	.07810	.08170
.994	-2.520	-26590	.14320	.00250	-.00270	.00220	.24970	.01310	.04990	.07300	.08230
.994	-.280	-12600	.08130	.00000	-.00230	.00170	.25750	.01320	.05030	.07330	.08230
.994	1.980	.02760	.01200	-.00240	-.00170	.00130	.24400	.01320	.05020	.07240	.08470
.994	4.220	.17770	-.05900	-.00710	.00010	.00030	.24180	.01320	.05010	.07450	.08370
.994	6.520	.33490	-.12600	-.01200	.00210	-.00050	.22800	.01270	.04830	.07400	.08220
.994	-.280	-.11920	.07530	.00120	-.00330	.00150	.24950	.01320	.05040	.07280	.08400

RUN NO. 5/ 0 RN/L = 6.59

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.046	-7.200	-.58320	.26860	.00720	-.00240	.00290	.27320	.01310	.04990	.08050	.07560
1.046	-4.850	-.42120	.20540	.00530	-.00210	.00260	.27340	.01300	.04930	.07780	.07560
1.046	-2.540	-.27130	.14760	.00220	-.00120	.00180	.27790	.01270	.04840	.07440	.07440
1.046	-.280	-.12960	.08630	.00050	-.00220	.00140	.27660	.01280	.04870	.07300	.07560
1.046	2.010	.02560	.02020	-.00150	-.00200	.00120	.27470	.01250	.04750	.07030	.07350
1.046	4.280	.16780	-.04580	-.00570	-.00060	.00030	.26440	.01310	.04950	.07340	.07560
1.046	6.620	.32710	-.10500	-.00890	-.00030	-.00080	.26250	.01270	.04840	.07190	.07090
1.046	-.270	-.12450	.08370	.00160	-.00290	.00150	.27650	.01290	.04900	.07320	.07610

RUN NO. 6/ 0 RN/L = 6.65

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.104	-7.250	-.57570	.26240	.01670	-.00680	.00400	.29130	.01160	.04430	.07440	.06660
1.104	-4.870	-.41940	.20470	.01340	-.00690	.00350	.29160	.01210	.04610	.07390	.07030
1.104	-2.550	-.26830	.14620	.00930	-.00600	.00250	.29240	.01180	.04510	.06990	.06890
1.104	-.270	-.12310	.08430	.00680	-.00530	.00250	.29230	.01180	.04510	.06740	.07110
1.104	2.020	.02710	.02180	.00270	-.00420	.00170	.28430	.01200	.04560	.06690	.07200
1.104	4.300	.17480	-.04550	.00150	-.00430	.00090	.28040	.01160	.04410	.06570	.06750
1.104	6.660	.33270	-.10490	-.00280	-.00270	-.00030	.27600	.01170	.04460	.06590	.06450
1.104	-.260	-.11800	.08150	.00640	-.00510	.00230	.29210	.01190	.04530	.06740	.07150

(RIK011) (16 APR 75)

MSFC THT610 (1A-71) 77-0.74-T5

PARAMETRIC DATA

 BETA = .000 ORBINC = .000
 FLIPDR = .000

RUN NO. 7/ 0 RN/L = 6.69

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CBO	CBS	CBE
1.252	-7.380	-.56820	.23740	.00390	-.00370	.00380	.29730	.01240	.04730	.07050	.06610
1.252	-4.950	-.38510	.16540	-.00090	-.00150	.00290	.29450	.01240	.04710	.06940	.06870
1.252	-2.580	-.22020	.10240	-.00560	.00040	.00220	.30240	.01230	.04670	.06720	.06510
1.252	-.220	-.06730	.04640	-.00570	.00010	.00130	.30250	.01220	.04630	.06550	.06670
1.252	2.100	.07640	-.00920	-.00860	.00020	.00030	.29750	.01230	.04680	.06470	.06840
1.252	4.420	.21430	-.06470	-.01270	.00050	-.00100	.29400	.01270	.04840	.06750	.06820
1.252	6.770	.36320	-.11980	-.01660	.00220	-.00190	.28700	.01330	.05050	.06980	.06850
1.252	-.200	-.05850	.04250	-.00820	.00050	.00100	.30190	.01210	.04620	.06530	.06710

RUN NO. 20/ 0 RN/L = 6.53

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CBO	CBS	CBE
1.461	-7.430	-.56850	.23390	-.01130	.00350	.00170	.30610	.01010	.03860	.05660	.06080
1.461	-5.000	-.39040	.16500	-.00740	.00150	.00210	.30430	.00980	.03740	.05370	.06020
1.461	-2.620	-.22860	.10340	-.00860	.00220	.00160	.30630	.00970	.03700	.05310	.05810
1.461	-.260	-.07470	.04620	-.01100	.00300	.00110	.30780	.00970	.03690	.05260	.05560
1.461	2.080	.07020	-.00730	-.01160	.00270	.00020	.30380	.00970	.03710	.05210	.05740
1.461	4.390	.20530	-.05970	-.01370	.00390	.00020	.30570	.00970	.03700	.05270	.05400
1.461	6.750	.34590	-.11140	-.01580	.00360	-.00030	.30240	.00990	.03790	.05370	.05300
1.461	-.240	-.07090	.04710	-.01030	.00250	.00110	.30740	.00960	.03680	.05200	.05430

RUN NO. 21/ 1 RN/L = 7.05

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CBO	CBS	CBE
1.958	-7.450	-.51960	.20600	-.00600	.00340	.00130	.28490	.00770	.02930	.03790	.03760
1.958	-5.060	-.36780	.15090	-.00780	.00440	.00140	.28030	.00770	.02950	.03590	.03820
1.958	-2.680	-.23330	.10380	-.00850	.00470	.00140	.27720	.00770	.02930	.03540	.03700
1.958	-.340	-.10500	.05910	-.01040	.00550	.00150	.27860	.00790	.03000	.03700	.03480
1.958	2.000	.02590	.01180	-.01140	.00570	.00140	.27330	.00830	.03150	.03760	.03330
1.958	4.320	.16250	-.04480	-.01240	.00520	.00160	.28000	.00830	.03180	.03740	.03300
1.958	6.720	.31780	-.11010	-.01390	.00520	.00210	.28760	.00850	.03230	.03750	.03290
1.958	-.330	-.10050	.05730	-.01090	.00550	.00130	.27890	.00790	.03010	.03720	.03360

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1A71 TABULATED SOURCE DATA

(RIK012) (16 APR 75)

MSFC TWTB10 (1A-71) 77-0.7N-1S

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO.		38/ 0		RN/L = 6.31	
MACH	ALPHA	CN	CLM	CY	CYN
.899	-7.130	-49460	.17810	-.00440	.00050
.899	-4.840	-34390	.12160	-.00740	.00190
.899	-2.620	-20470	.05640	-.01340	.00540
.899	-.300	-06840	.00300	-.01790	.00760
.899	1.860	.07540	-.05510	-.01750	.00740
.899	4.110	.19860	-.09460	-.01840	.00550
.899	6.350	.33010	-.13290	-.02340	.00760
.899	-.300	-.06990	.00470	-.01430	.00570

CAF		CBL		CBO	
.15080	.15080	.00360	.00360	.01000	.01000
.15150	.15150	.00260	.00260	.01000	.01000
.15570	.15570	.00090	.00090	.00960	.00960
.15950	.15950	.00060	.00060	.00970	.00970
.15530	.15530	-.00050	-.00050	.00930	.00930
.14930	.14930	-.00230	-.00230	.00920	.00920
.14670	.14670	-.00150	-.00150	.00910	.00910
.16030	.16030	.00090	.00090	.00980	.00980

CABO		CABS		CABE	
.03810	.03810	.06270	.06270	.07330	.07330
.03810	.03810	.06050	.06050	.07490	.07490
.03640	.03640	.05630	.05630	.07120	.07120
.03680	.03680	.05650	.05650	.07230	.07230
.03540	.03540	.05560	.05560	.07080	.07080
.03510	.03510	.05700	.05700	.07170	.07170
.03470	.03470	.06090	.06090	.07300	.07300
.03730	.03730	.05750	.05750		

RUN NO.		67/ 0		RN/L = 6.37	
MACH	ALPHA	CN	CLM	CY	CYN
.952	-7.160	-50720	.18830	-.00810	.00290
.952	-4.860	-36010	.13630	-.00780	.00190
.952	-2.560	-22150	.08740	-.00760	.00080
.952	-.320	-.08020	.02620	-.00700	-.00030
.952	1.940	.06310	-.03090	-.00950	.00090
.952	4.160	.20130	-.09440	-.00840	.00070
.952	6.500	.33960	-.13320	-.01150	.00280
.952	-.300	-.07610	.02630	-.00650	-.00040

CAF		CBL		CBO	
.17590	.17590	.00240	.00240	.01070	.01070
.17930	.17930	.00180	.00180	.01050	.01050
.18260	.18260	.00160	.00160	.01030	.01030
.18370	.18370	.00110	.00110	.01000	.01000
.18320	.18320	.00000	.00000	.00970	.00970
.17510	.17510	-.00030	-.00030	.00970	.00970
.17470	.17470	-.00060	-.00060	.00940	.00940
.18700	.18700	.00110	.00110	.00990	.00990

CABO		CABS		CABE	
.04060	.04060	.06820	.06820	.08120	.08120
.04010	.04010	.06560	.06560	.07960	.07960
.03940	.03940	.06330	.06330	.07830	.07830
.03810	.03810	.06130	.06130	.07640	.07640
.03710	.03710	.05960	.05960	.07510	.07510
.03700	.03700	.06090	.06090	.07610	.07610
.03600	.03600	.06260	.06260	.07560	.07560
.03790	.03790	.06060	.06060	.07460	.07460

RUN NO.		39/ 0		RN/L = 6.62	
MACH	ALPHA	CN	CLM	CY	CYN
1.046	-7.250	-55940	.23930	.00170	.00090
1.046	-4.900	-39990	.17890	.00060	.00080
1.046	-2.590	-25270	.12430	.00000	.00070
1.046	-.300	-.10810	.06220	.00090	-.00140
1.046	1.980	.03610	-.00360	-.00080	.00150
1.046	4.230	.18110	-.06430	-.00390	.00090
1.046	6.950	.32730	-.11530	-.00540	.00130
1.046	-.300	-.11110	.06430	.00030	-.00150

CAF		CBL		CBO	
.25460	.25460	.00270	.00270	.01240	.01240
.25600	.25600	.00220	.00220	.01210	.01210
.25890	.25890	.00200	.00200	.01200	.01200
.26890	.26890	.00210	.00210	.01130	.01130
.26180	.26180	.00190	.00190	.01180	.01180
.25980	.25980	.00160	.00160	.01170	.01170
.24790	.24790	.00090	.00090	.01240	.01240
.26440	.26440	.00190	.00190	.01190	.01190

CABO		CABS		CABE	
.04730	.04730	.08230	.08230	.08420	.08420
.04630	.04630	.08000	.08000	.08300	.08300
.04560	.04560	.07720	.07720	.08100	.08100
.04290	.04290	.07260	.07260	.07510	.07510
.04510	.04510	.07250	.07250	.07600	.07600
.04460	.04460	.07240	.07240	.07280	.07280
.04710	.04710	.07590	.07590	.07440	.07440
.04520	.04520	.07500	.07500	.07720	.07720

(RIK012) (16 APR 75)

MSFC TWT610 (1A-71) 77-0.74-TS

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 66/ 0 RN/L = 6.64

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.151	-7.350	-.56680	.23200	.00740	-.00630	.00320	.26740	.01120	.04260	.07650	.07590
1.151	-4.970	-.40110	.17090	.00620	-.00670	.00270	.27100	.01050	.04020	.07270	.07300
1.151	-2.590	-.24590	.11610	.00830	-.00850	.00230	.27410	.01030	.03920	.06960	.07030
1.151	-.260	-.09800	.06070	.00910	-.01020	.00230	.27200	.01030	.03940	.06980	.07110
1.151	2.030	.05040	-.00250	.01100	-.01250	.00270	.27010	.01060	.04040	.06830	.07210
1.151	4.320	.19810	-.06680	.01380	-.01430	.00280	.26670	.01100	.04200	.07060	.07330
1.151	6.680	.35070	-.12460	.01300	-.01350	.00240	.26390	.01100	.04200	.07050	.07200
1.151	-.260	-.09470	.05850	.00870	-.00980	.00250	.27450	.01010	.03870	.06930	.07040

RUN NO. 68/ 0 RN/L = 6.67

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.199	-7.390	-.55900	.21910	-.00060	-.00240	.00290	.27320	.01190	.04520	.07360	.08000
1.199	-4.970	-.37440	.14640	-.03180	-.00220	.00290	.27580	.01150	.04390	.07100	.07940
1.199	-2.600	-.20490	.07920	-.00430	-.00050	.00260	.28260	.01110	.04240	.06750	.07800
1.199	-.240	-.04740	.02050	-.00480	-.00040	.00220	.28250	.01110	.04220	.06630	.07910
1.199	2.070	.09600	-.03530	-.00410	-.00080	.00170	.28160	.01090	.04160	.06460	.07840
1.199	4.380	.23600	-.09010	-.00310	-.00290	.00130	.27870	.01100	.04200	.06740	.07740
1.199	6.750	.38370	-.14340	-.00520	-.00210	.00050	.27480	.01110	.04240	.06720	.07580
1.199	-.230	-.04590	.02040	-.00530	-.00020	.00190	.28510	.01090	.04140	.06430	.07850

RUN NO. 40/ 0 RN/L = 6.72

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.250	-7.420	-.54990	.21340	.00140	-.00280	.00380	.27550	.01190	.04540	.07180	.07500
1.250	-5.010	-.36730	.14230	-.00020	-.00280	.00340	.27500	.01180	.04490	.07050	.07690
1.250	-2.610	-.20500	.08150	-.00120	-.00030	.00310	.28550	.01160	.04410	.06770	.07070
1.250	-.250	-.05470	.02770	-.00200	-.00340	.00220	.28750	.01190	.04530	.06690	.07020
1.250	2.070	.08930	-.02740	-.00510	-.00150	.00180	.28580	.01210	.04610	.06530	.06990
1.250	4.370	.22720	-.08330	-.00820	-.00080	.00090	.28390	.01220	.04540	.06720	.06790
1.250	6.720	.37160	-.13500	-.00760	-.00280	.00050	.27940	.01240	.04720	.06900	.06760
1.250	-.240	-.04260	.01980	-.00530	-.00010	.00250	.29200	.01140	.04360	.06400	.06560

1A71 TABULATED SOURCE DATA

(RIK013) (16 APR 75)

MSFC THT610 (1A-71) 77-0, 74-TS

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 61/ 0 RN/L = 6.26

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CMB0	CAB0	CABS	CABE
.899	-6.660	-.08600	.01500	.24900	-.08300	.02220	.14520	.01080	.04030	.06750	.07840
.899	-4.470	-.08200	.01310	.16910	-.05810	.01530	.15060	.01000	.03810	.06400	.07470
.899	-2.310	-.08320	.01390	.09230	-.03350	.00820	.15240	.00930	.03560	.06090	.07070
.899	-.160	-.08990	.01810	.01590	-.00660	.00230	.15320	.00960	.03660	.05920	.07070
.899	1.970	-.08440	.01470	-.05700	.01900	-.00340	.15410	.00970	.03710	.05480	.07110
.899	4.130	-.08380	.01310	-.12420	.03970	-.00890	.15680	.01010	.03840	.05170	.07200
.899	6.280	-.07320	.00780	-.19760	.06310	-.01250	.16350	.01080	.04130	.05030	.07520
.899	-.160	-.09580	.02120	.01710	-.00780	.00230	.14610	.00970	.03700	.06070	.07090

RUN NO. 62/ 0 RN/L = 6.38

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CMB0	CAB0	CABS	CABE
.947	-6.690	-.08920	.02030	.24870	-.08030	.02450	.16260	.01140	.04360	.07370	.08540
.947	-4.480	-.09070	.02840	.16710	-.05660	.01720	.17140	.01090	.04150	.06970	.08040
.947	-2.310	-.09750	.03600	.08890	-.03220	.00960	.17590	.01040	.03970	.06680	.07660
.947	-.150	-.11140	.04480	.01220	-.00620	.00250	.17470	.01050	.04010	.06470	.07630
.947	1.990	-.10060	.03840	-.06030	.01920	-.00430	.17610	.01040	.03980	.06130	.07630
.947	4.140	-.09580	.03370	-.13450	.04390	-.01080	.18100	.01070	.04090	.05670	.07790
.947	6.330	-.09020	.02960	-.20690	.06610	-.01790	.18830	.01140	.04350	.05230	.08050
.947	-.150	-.10930	.04330	.01400	-.00700	.00240	.17370	.01050	.04010	.06470	.07660

RUN NO. 63/ 0 RN/L = 6.47

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CMB0	CAB0	CABS	CABE
1.004	-6.710	-.09810	.04890	.25860	-.08950	.02750	.21820	.01440	.05480	.08940	.09770
1.004	-4.510	-.10610	.05940	.17380	-.06330	.01880	.22240	.01400	.05320	.08770	.09400
1.004	-2.320	-.10770	.06500	.09760	-.03850	.01120	.23230	.01320	.05040	.08630	.09010
1.004	-.160	-.11860	.07110	.01750	-.00930	.00350	.22830	.01320	.05020	.08470	.09030
1.004	1.990	-.11490	.06930	-.06150	.02040	-.00420	.23470	.01310	.04970	.08110	.08960
1.004	4.150	-.11650	.07110	-.13580	.04660	-.01150	.23730	.01360	.05180	.07720	.09240
1.004	6.330	-.10900	.06410	-.20860	.06810	-.01900	.24220	.01390	.05300	.07270	.09360
1.004	-.160	-.12060	.07020	.01820	-.00960	.00340	.22460	.01320	.05010	.08340	.08950

PARAMETRIC DATA

ALPHA = .000 ORGINC = .000
FLIPDR = .000

RUN NO. 107/ 0 RN/L = 6.55									
MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO
1.050	-6.760	-.08830	.04270	.26240	-.08760	.02910	.24940	.01260	.04800
1.050	-4.540	-.09800	.05420	.17720	-.06320	.01960	.24840	.01260	.04790
1.050	-2.350	-.09920	.05860	.09860	-.03890	.01190	.25220	.01170	.04470
1.050	-.160	-.11210	.06630	.02210	-.01240	.00360	.24840	.01180	.04510
1.050	2.010	-.10400	.06160	-.05850	.01650	-.00430	.25790	.01130	.04320
1.050	4.170	-.10410	.06290	-.13270	.04210	-.01180	.25720	.01230	.04680
1.050	6.360	-.09530	.05460	-.20610	.06310	-.01960	.26390	.01230	.04680
1.050	-.160	-.11210	.06570	.02060	-.01170	.00330	.24930	.01180	.04490

CABS
CABE

RUN NO. 64/ 0 RN/L = 6.60

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO
1.100	-6.760	-.08100	.03940	.25880	-.08760	.02940	.25850	.01170	.04450
1.100	-4.540	-.08640	.04680	.17300	-.06280	.02030	.26670	.01070	.04090
1.100	-2.340	-.09130	.05390	.09500	-.03830	.01180	.26590	.01050	.04010
1.100	-.150	-.10180	.06100	.01660	-.01060	.00360	.26490	.01050	.04010
1.100	2.020	-.10120	.06290	-.06160	.01710	-.00450	.26920	.01070	.04090
1.100	4.190	-.09680	.05880	-.13420	.04170	-.01250	.27420	.01090	.04150
1.100	6.390	-.08910	.05220	-.20930	.06300	-.02080	.27730	.01130	.04300
1.100	-.150	-.10520	.06240	.01660	-.01070	.00350	.26590	.01060	.04020

CABS
CABE

RUN NO. 65/ 0 RN/L = 6.64

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO
1.151	-6.790	-.08520	.03490	.25260	-.07970	.02960	.26650	.01170	.04450
1.151	-4.560	-.09280	.04420	.16680	-.05560	.02040	.27000	.01080	.04100
1.151	-2.340	-.09780	.05280	.08910	-.03200	.01190	.26990	.01030	.03930
1.151	-.150	-.10630	.06190	.01160	-.00570	.00290	.26660	.01040	.03980
1.151	2.020	-.10380	.05980	-.06520	.02060	-.00560	.27330	.01070	.04080
1.151	4.210	-.09700	.05440	-.13890	.04350	-.01370	.27750	.01110	.04240
1.151	6.410	-.09210	.04860	-.21170	.06280	-.02230	.27720	.01190	.04540
1.151	-.150	-.10600	.06150	.01210	-.00640	.00260	.26860	.01030	.03920

CABS
CABE

ORIGINAL PAGE IS
OF POOR QUALITY

IA71 TABULATED SOURCE DATA

(RIK013) (18 APR 75)

MSFC TWT810 (1A-71) 77-0.74-TS

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 80/ 0 RN/L = 8.67

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CHBO	CABO	CABS	CABE
1.202	-6.850	-0.6330	.01830	.26020	-.07800	.03010	.27600	.01200	.04800	.07180	.08700
1.202	-4.580	-0.09460	.02090	.17100	-.05380	.02130	.28010	.01180	.04480	.06990	.08290
1.202	-2.350	-0.06560	.02650	.09030	-.03040	.01260	.27990	.01150	.04390	.06830	.07990
1.202	-1.150	-0.06910	.03260	.01060	-.00550	.00440	.27820	.01140	.04340	.06800	.08040
1.202	2.040	-0.06880	.03070	-.06570	.01830	-.00370	.27870	.01160	.04440	.06780	.08180
1.202	4.270	-0.07110	.02920	-.14030	.03920	-.01160	.28400	.01180	.04430	.06410	.08190
1.202	6.500	-0.07330	.02880	-.22130	.06030	-.02030	.28230	.01240	.04740	.06290	.08630
1.202	-1.150	-0.07450	.03690	.01130	-.00620	.00430	.27710	.01120	.04270	.06730	.07950

RUN NO. 59/ 0 RN/L = 8.67

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CHBO	CABO	CABS	CABE
1.253	-6.840	-0.08150	.03180	.25330	-.08010	.03010	.27560	.01200	.04570	.06950	.08180
1.253	-4.570	-0.07620	.03250	.16740	-.05350	.02130	.27740	.01130	.04310	.06780	.07770
1.253	-2.350	-0.07620	.03610	.08770	-.03040	.01260	.27660	.01110	.04230	.06710	.07560
1.253	-1.140	-0.08090	.04050	.00990	-.00620	.00400	.27470	.01100	.04190	.06670	.07510
1.253	2.040	-0.08250	.04210	-.06570	.01770	-.00420	.27870	.01130	.04310	.06620	.07500
1.253	4.270	-0.08510	.04240	-.14160	.04070	-.01230	.28350	.01140	.04360	.06310	.07730
1.253	6.510	-0.08740	.04220	-.22440	.06240	-.02050	.28260	.01180	.04510	.06110	.08120
1.253	-1.140	-0.08350	.04110	.00890	-.00610	.00440	.27410	.01100	.04180	.06650	.07430

RUN NO. 98/ 0 RN/L = 8.49

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CHBO	CABO	CABS	CABE
1.458	-6.840	-0.06600	.02050	.25850	-.08270	.02860	.28700	.01040	.03950	.05470	.06770
1.458	-4.570	-0.06490	.02260	.16480	-.05260	.01880	.29000	.00950	.03610	.05280	.06420
1.458	-2.350	-0.06290	.02370	.08400	-.02870	.01080	.28790	.00940	.03580	.05280	.06360
1.458	-1.130	-0.06260	.02580	.01140	-.00900	.00460	.29000	.00920	.03530	.05270	.06270
1.458	2.080	-0.06260	.02530	-.06210	.01240	-.00140	.28960	.00950	.03610	.05210	.06320
1.458	4.270	-0.06250	.02590	-.13590	.03330	-.00870	.29340	.00930	.03550	.05020	.06350
1.458	6.530	-0.06880	.02800	-.21820	.05610	-.01720	.29420	.00990	.03780	.04770	.06450
1.458	-1.120	-0.06870	.02810	.01010	-.00750	.00460	.29020	.00910	.03470	.05100	.06070

(RIK014) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

IA71 TABULATED SOURCE DATA

W5FC TH7610 (1A-71) 77-0,74-75 Z10

RUN NO. 13/ 0 RM/L = 5.97

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CBO	CBS	CABE
.800	-7.020	-60690	-34640	.00480	-.00310	.00420	.18190	.01010	-.03840	.05850	.07550
.800	-4.820	-55950	-.00390	.00390	-.00270	.29230	.18550	.01000	.03800	.05570	.07580
.800	-2.590	-41770	.24050	-.00280	.00090	.00310	.18610	.03610	.05610	.07290	.07290
.800	-.390	-.29440	.19220	-.00950	.00120	.00300	.18310	.00950	.03610	.05710	.07160
.800	1.810	-.16810	.14760	-.00660	.00080	.00280	.17820	.00920	.03500	.05830	.07080
.800	4.060	-.03710	.01260	-.01260	.00360	.00170	.17240	.00920	.03520	.05640	.07130
.800	6.300	.11130	.05050	-.01940	.00640	.00030	.16350	.00910	.03460	.05690	.07150
.800	-.300	-.29170	.19060	-.00620	.00100	.00280	.18310	.00950	.03610	.05720	.07150

RUN NO. 12/ 0 RN/L = 6.31

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.906	-7.150	-68880	34610	.00210	-.00100	.00330	.19940	.01030	.03910	.06560	.08940
.906	-4.850	-53840	.29060	-.00090	.00040	.00230	.20520	.01010	.03850	.06260	.08530
.906	-2.630	-40650	.23470	-.00580	.00160	.00160	.20840	.01010	.03840	.06330	.08190
.906	-4.00	-27370	.18030	-.001250	.00470	.00040	.20790	.01000	.03830	.06330	.07950
.906	1.820	-13890	.12500	-.01800	.00740	-.00020	.19690	.00980	.03730	.06200	.07720
.906	4.100	.00170	.07170	-.01940	.00670	-.00020	.18770	.00970	.03710	.06290	.07630
.906	6.370	.15090	.01330	-.01870	.00490	-.00020	.18060	.00990	.03700	.06480	.07610
.906	-.330	-.26950	.17740	-.01070	.00400	.00090	.20180	.01000	.03810	.06220	.07880

RUN NO. 11/0 RN/L = 6.52

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNB	CAB	CBS	CABE
.997	-7.160	-7.0870	.38030	.00840	-.00210	.00380	.29720	.01440	.05480	.08260	.09710
.997	-4.840	-5.5180	.31830	.00490	-.00040	.00310	.29930	.01400	.05330	.08070	.09550
.997	-2.570	-4.1330	.26440	.00080	.00240	.00260	.29890	.01350	.05140	.07970	.09370
.997	-.330	-2.8080	.20760	-.00210	.00170	.00200	.30280	.01360	.05160	.07930	.09300
.997	1.920	-.14270	.14960	-.00430	.00190	.00180	.28450	.01350	.05150	.07930	.09480
.997	4.170	.00870	.07880	-.01040	.00360	.00120	.28270	.01360	.05180	.08010	.09190
.997	6.490	.17020	.01150	-.01110	.00250	.00090	.26500	.01350	.05140	.08040	.09020
.997	3.30	-.27970	.20630	-.00140	.00130	.00180	.29390	.01350	.05160	.07950	.09420

1A71 TABULATED SOURCE DATA

(RIK014) (16 APR 75)

MSFC TWT610 (1A-71) 77-0.74-TS Z10

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 10/ 0 RN/L = 6.59

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.048	-7.230	-6.9720	.36330	.00660	-.00120	.00360	.32250	.01390	.05300	.08110	.09140
1.048	-4.680	-5.4090	.30500	.00400	.00000	.00280	.32450	.01350	.05130	.07840	.08870
1.048	-2.580	-4.0350	.25520	-.00020	.00210	.00200	.32650	.01290	.04920	.07650	.08560
1.048	-.320	-2.7320	.20330	-.00330	.00230	.00160	.32270	.01290	.04920	.07490	.08440
1.048	1.950	-1.3040	.14450	-.00510	.00170	.00150	.31620	.01270	.04850	.07210	.08130
1.048	4.200	.01390	.07910	-.00800	.00180	.00110	.30340	.01320	.05010	.07490	.08250
1.048	6.580	.18390	.01260	-.01010	.00100	.00070	.29660	.01270	.04830	.07270	.07670
1.048	-.310	-.26960	.20220	-.00060	.00110	.00180	.32340	.01290	.04930	.07510	.08450

RUN NO. 14/ 0 RN/L = 6.64

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.105	-7.260	-6.8750	.35830	.01140	-.00310	.00370	.34080	.01240	.04720	.07180	.08210
1.105	-4.910	-5.3300	.29840	.00540	-.00010	.00280	.34010	.01210	.04590	.06880	.07840
1.105	-2.590	-3.8570	.24280	.00390	.00050	.00250	.33820	.01150	.04370	.06630	.07440
1.105	-.300	-2.4710	.18670	.00210	.00030	.00240	.33270	.01140	.04360	.06500	.07540
1.105	1.990	-1.0060	.12730	-.00210	.00100	.00210	.32360	.01170	.04470	.06530	.07530
1.105	4.300	.05470	.05780	-.00430	.00090	.00110	.31620	.01210	.04610	.06790	.07410
1.105	6.640	.21820	-.00770	-.00490	-.00140	.00090	.30590	.01170	.04440	.06650	.06850
1.105	-.300	-.24960	.18920	-.00080	.00270	.00210	.33660	.01190	.04520	.06640	.07650

RUN NO. 15/ 0 RN/L = 6.70

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.250	-7.390	-6.5920	.31590	.00200	.00000	.00330	.33430	.01360	.05190	.07030	.08350
1.250	-4.960	-4.6490	.23550	-.00120	.00060	.00290	.32890	.01340	.05090	.06860	.08040
1.250	-2.580	-.29310	.16530	-.00440	.00250	.00210	.33160	.01320	.05010	.06670	.07310
1.250	-.210	-1.3020	.10270	-.00810	.00350	.00130	.32880	.01300	.04950	.06480	.07170
1.250	2.100	.01350	.04740	-.00830	.00100	-.00020	.32210	.01300	.04940	.06450	.07210
1.250	4.420	.15020	-.00810	-.01010	-.00010	-.00010	.31810	.01340	.05110	.06780	.07000
1.250	6.760	.29930	-.08450	-.01400	.00080	-.00180	.30840	.01390	.05280	.07050	.06960
1.250	-.200	-.12340	.10010	-.00820	.00310	.00110	.32830	.01290	.04930	.06510	.07180

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 77-0,7N-TS Z10 (RIK014) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CABO	CABS	CABE
1.458	-7.420	-62810	.28850	-.01100	.00490	.00150	.34140	.01010	.03860	.05620	.08330
1.458	-5.000	-44720	.21560	-.00380	-.00030	.00220	.33560	.01010	.03840	.05250	.08200
1.458	-2.620	-28460	.15270	-.00500	.00010	.00200	.33400	.01020	.03870	.05370	.06050
1.458	-.250	-12790	.09440	-.00790	.00090	.00120	.33350	.01010	.03860	.05350	.05760
1.458	2.080	.01600	.04030	-.00930	.00080	.00050	.32730	.01010	.03850	.05320	.05990
1.458	4.390	.15670	-.01580	-.01040	.00110	.00040	.32740	.01000	.03810	.05310	.05530
1.458	6.750	.29890	-.06920	-.01190	.00080	.00030	.32350	.01010	.03860	.05360	.05330
1.458	-.230	-.12410	.09480	-.00770	.00020	.00140	.33260	.01010	.03870	.05310	.05550

RUN NO. 19/ 0 RN/L = 6.51

RUN NO. 22/ 0 RN/L = 7.03

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CABO	CABS	CABE
1.967	-7.490	-56640	.24010	-.00560	.00350	.00170	.31620	.00880	.03360	.03840	.03840
1.967	-5.020	-39910	.18140	-.00640	.00340	.00190	.29660	.00860	.03270	.03600	.03850
1.967	-2.660	-.26110	.13150	-.00820	.00460	.00180	.29320	.00820	.03120	.03640	.03640
1.967	-.320	-13340	.08690	-.00980	.00510	.00200	.28970	.00850	.03230	.03730	.03430
1.967	2.010	-.00110	.03890	-.01080	.00560	.00200	.28430	.00850	.03250	.03750	.03210
1.967	4.320	.13030	-.01650	-.01120	.00470	.00210	.29050	.00880	.03340	.03750	.03240
1.967	6.680	.27670	-.07890	-.01310	.00540	.00240	.29120	.00900	.03430	.03730	.03230
1.967	-.310	-.13030	.08640	-.01030	.00560	.00180	.29030	.00830	.03180	.03680	.03240

MSFC TWT610 (1A-71) 77-0,7N-TS Z10 (RIK015) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 40.000

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNO	CABO	CABS	CABE
1.048	-6.440	-22200	.16240	.29780	-.13020	.04890	.30600	.01270	.04890	.08370	.08950
1.048	-4.330	-23760	.17910	.19850	-.08850	.03270	.31470	.01250	.04760	.08230	.08640
1.048	-2.250	-24870	.19030	.10900	-.05030	.01810	.31970	.01230	.04700	.08110	.08390
1.048	-.180	-25760	.19540	.01960	-.01000	.00450	.31960	.01230	.04690	.07870	.08580
1.048	1.870	-.25480	.19330	-.06950	.03070	-.00950	.31910	.01240	.04730	.07680	.08650
1.048	3.940	-.24810	.18770	-.19420	.06730	-.02190	.33010	.01220	.04840	.07050	.08170
1.048	6.030	-.24560	.18130	-.24370	.10640	-.03660	.32290	.01300	.04960	.06940	.08780
1.048	-.180	-.25670	.19470	.01950	-.01030	.00450	.32120	.01220	.04650	.07800	.08470

RUN NO. 9/ 0 RN/L = 6.58

1A71 TABULATED SOURCE DATA

(RIK016) (18 APR 75)

MSFC TMT610 (1A-71) 77-0.74-75 Z10

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 32/ 0 RN/L = 5.91

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.797	-7.050	-6.3540	.29320	.00130	-.00190	.00600	.14740	.00960	.03670	.06160	.07420
.797	-4.850	-4.9670	.23400	.00330	-.00350	.00530	.14910	.00970	.03700	.05760	.07440
.797	-2.800	-3.6200	.18480	-.00020	-.00220	.00500	.14910	.00940	.03590	.05980	.07300
.797	-.400	-2.2690	.13030	-.00340	-.00130	.00450	.15000	.00950	.03630	.05860	.07160
.797	1.820	-.09290	.08290	-.00500	-.00120	.00450	.14640	.00950	.03610	.05780	.07040
.797	4.060	.04710	.03640	-.01110	.00090	.00400	.14020	.00950	.03630	.05690	.07150
.797	6.280	.18360	-.01350	-.01270	.00100	.00410	.12810	.00970	.03680	.06090	.07090
.797	-.400	-.22880	.13080	-.00270	-.00160	.00450	.15070	.00970	.03720	.05840	.07150

RUN NO. 31/ 0 RN/L = 6.27

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.904	-7.160	-6.2970	.29070	-.00840	.00250	.00320	.17360	.00920	.03490	.06340	.07930
.904	-4.860	-.48140	.23760	-.00500	.00040	.00270	.17870	.00900	.03420	.05930	.07730
.904	-2.650	-.35070	.18030	-.00980	.00200	.00220	.17910	.00900	.03450	.05960	.07490
.904	-.410	-.22080	.12990	-.01090	.00190	.00180	.17650	.00900	.03440	.06030	.07470
.904	1.820	-.08140	.07310	-.01240	.00220	.00240	.16810	.00900	.03420	.06050	.07400
.904	4.080	.06350	.01630	-.01160	.00160	.00220	.16140	.00900	.03420	.06240	.07410
.904	6.380	.21300	-.03930	-.01640	.00280	.00160	.15830	.00930	.03540	.06460	.07450
.904	-.410	-.21880	.13070	-.00980	.00110	.00180	.18080	.00910	.03490	.06240	.07640

RUN NO. 17/ 0 RN/L = 6.51

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.004	-7.150	-6.5500	.33380	.00340	-.00040	.00310	.27170	.01520	.05780	.08960	.09820
1.004	-4.850	-.49420	.26940	.00210	-.00010	.00260	.27990	.01520	.05780	.08910	.09590
1.004	-2.550	-.35550	.21750	.00000	.00060	.00220	.28090	.01490	.05650	.08740	.09320
1.004	-.300	-.21660	.15690	.00030	-.00150	.00210	.27950	.01480	.05630	.08570	.09170
1.004	1.960	-.06690	.09200	-.00220	-.00090	.00200	.26980	.01470	.05610	.08400	.09070
1.004	4.210	.08570	.01730	-.00340	-.00050	.00140	.26110	.01470	.05600	.08510	.08940
1.004	6.510	.24770	-.04950	-.00810	-.00040	.00110	.25100	.01470	.05610	.08530	.08730
1.004	-.300	-.21530	.15630	.00140	-.00200	.00210	.28080	.01470	.05590	.08520	.09090

(R1K016) (16 APR 75)

1A71 TABULATED SOURCE DATA

WFOC TW010 (1A-71) 77-0,74-78 Z10

PARAMETRIC DATA

BETA = .000 ORGINC = .000
FLIPOR = 20.000

RUN NO.	30 / 0	RM/L = 6.57								
ALPHA	CN	CLM	CY	CYN	CBL	CAF	CN80	CABO	CAGS	CABE
1.049	- .63250	.29730	.00920	- .00120	.00340	.28780	.01300	.04970	.08160	.08740
1.049	- .47930	.24230	.00340	- .00090	.00300	.29070	.01270	.04820	.07840	.08270
1.049	- .33890	.19270	.00170	.00000	.00260	.29150	.01250	.04750	.07680	.08030
1.049	- .20850	.14110	.00270	- .00220	.00270	.28720	.01240	.04730	.07550	.08120
1.049	- .06530	.08400	.00130	- .00250	.00310	.27620	.01270	.04840	.07490	.08270
1.049	.09390	.00950	- .00110	- .00180	.00340	.27530	.01210	.04610	.07280	.07640
1.049	.24850	- .04740	- .00140	- .00330	.00260	.26380	.01250	.04740	.07500	.07500
1.049	- .330	.14110	.00320	- .00260	.00260	.28470	.01260	.04810	.07950	.08260

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNSO	CASO	CABS	CABE
1.107	-7.300	-.62720	.29420	.00660	-.00070	.00320	.30380	.01170	.04470	.07380	.07950
1.107	-4.950	-.46590	.23410	.00600	-.00110	.00290	.30480	.01130	.04310	.07050	.07500
1.107	-2.640	-.32480	.18200	.00590	-.00190	.00250	.30300	.01110	.04240	.06820	.07130
1.107	-.330	-.18730	.12700	.00600	-.00300	.00260	.29770	.01100	.04190	.06710	.07350
1.107	1.960	-.04130	.06860	.00610	-.00500	.00290	.28980	.01110	.04230	.06570	.07270
1.107	4.250	.11070	.00260	.00320	-.00450	.00290	.28490	.01130	.04300	.06780	.07120
1.107	6.610	.26810	-.05890	.00230	-.00520	.00260	.27970	.01110	.04240	.06750	.06620
1.107	-.320	-.18360	.12560	.00650	-.00360	.00270	.29940	.01110	.04220	.06720	.07320

MACH	ALPHA	CN	CLM	CV	CYN	CBL	CAF	CMB	CAB	CAB5	CABE
1.260	-7.400	-59800	.26100	.00190	-.00220	.00350	.30570	.01120	.04260	.06670	.07250
1.260	-4.990	-41180	.18710	-.00010	-.00200	.00290	.30110	.01100	.04190	.06580	.07270
1.260	-2.600	-24530	.12190	-.00320	-.00050	.00280	.30870	.01090	.04140	.06370	.06480
1.260	-.230	-.09090	.06570	-.00340	-.00160	.00210	.30920	.01080	.04110	.06170	.06320
1.260	2.080	04840	.01350	-.00590	-.00120	.00130	.30340	.01110	.04220	.06110	.06560
1.260	4.380	.18480	-.04190	-.00790	-.00090	.00070	.29860	.01150	.04390	.06390	.06390
1.260	6.730	.33190	-.09610	-.00680	-.00340	.00040	.29300	.01190	.04550	.06560	.06180
1.260	-.210	-.09520	.06440	-.00400	-.00130	.00200	.31060	.01080	.04110	.06160	.06290

ORIGINAL PAGE IS
OF POOR QUALITY

MSFC TWT610 (1A-71) 77-0.7N-TS Z10

(RIK016) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 18/ 0 RN/L = 6.48

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CABO	CABS	CABE
1.474	-7.430	-50180	.25560	-.00860	.00250	.00180	.31700	.00990	.03760	.05460	.06090
1.474	-4.980	-41070	.18390	-.00510	.00030	.00210	.31390	.00990	.03770	.05210	.05660
1.474	-2.620	-25090	.12310	-.00780	.00150	.00150	.31350	.00990	.03780	.05230	.05680
1.474	-.260	-.09780	.06640	-.00930	.00170	.00120	.31420	.00990	.03790	.05200	.05440
1.474	2.080	.04910	.01110	-.00990	.00060	.00090	.31080	.00990	.03770	.05200	.05620
1.474	4.390	.18750	-.04400	-.01230	.00220	.00050	.31120	.00990	.03770	.05270	.05410
1.474	6.750	.32860	-.09600	-.01340	.00180	.00060	.30860	.01010	.03850	.05290	.05210
1.474	-.240	-.09120	.06430	-.00980	.00190	.00110	.31440	.00990	.03780	.05190	.05400

RUN NO. 28/ 0 RN/L = 7.04

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CABO	CABS	CABE
1.962	-7.470	-53880	.22050	-.00490	.00260	.00200	.29340	.00820	.03150	.03810	.04010
1.962	-5.050	-.38640	.16550	-.00640	.00340	.00210	.28970	.00820	.03120	.03610	.03910
1.962	-2.690	-.24860	.11640	-.00910	.00450	.00190	.28600	.00790	.03030	.03640	.03700
1.962	-.340	-.11930	.07110	-.01060	.00530	.00200	.28440	.00810	.03100	.03720	.03480
1.962	2.000	.01380	.02400	-.01130	.00560	.00190	.27840	.00840	.03200	.03720	.03250
1.962	4.320	.14980	-.03370	-.01210	.00510	.00220	.28550	.00860	.03280	.03740	.03300
1.962	6.670	.29360	-.09480	-.01480	.00630	.00230	.28410	.00860	.03290	.03660	.03230
1.962	-.310	-.11200	.07030	-.01120	.00590	.00190	.27930	.00800	.03060	.03650	.03250

MSFC TWT610 (1A-71) 77-0.7N-TS Z10

(RIK017) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 73/ 0 RN/L = 6.22

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNO	CABO	CABS	CABE
.897	-6.850	-.18820	.09050	.23840	-.07550	.02240	.16650	.01010	.03840	.06770	.07870
.897	-4.460	-.17870	.09800	.16300	-.05390	.01510	.16760	.00980	.03750	.06570	.07630
.897	-2.300	-.18250	.10240	.09100	-.03320	.00880	.16920	.00910	.03470	.06460	.07310
.897	-.150	-.18990	.10640	.01780	-.01000	.00300	.17150	.00880	.03370	.06210	.07050
.897	1.980	-.17700	.10060	-.05200	.01310	-.00270	.17690	.00870	.03310	.05860	.07000
.897	4.120	-.17870	.10000	-.11800	.03200	-.00850	.17930	.00920	.03500	.05650	.07210
.897	6.290	-.17480	.09560	-.18600	.05250	-.01410	.18000	.01000	.03790	.05390	.07360
.897	-.150	-.18860	.10830	.01880	-.01020	.00300	.17320	.00890	.03380	.06220	.07110

(RIK017) (16 APR 75)

MSFC TW1610 (1A-71) 77-0.74-TF Z10

PARAMETRIC DATA

ALPHA = .000 ORGINC = .000
FLIPDR = 20.000

RUN NO. 72/ 0		RM/L = 6.54															
MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE	MACH	BETA	CN	CLM	CY	CYN
1.054	-6.610	-13340	.08320	.25060	-.08060	.02650	.27480	.01250	.04750	.08230	.08490	1.054	-6.610	-13340	.08320	.25060	-.08060
1.054	-4.370	-14100	.09370	.16850	-.05800	.01840	.28120	.01200	.04570	.08110	.08120	1.054	-4.370	-14100	.09370	.16850	-.05800
1.054	-2.190	-14920	.10230	.09480	-.03650	.01080	.28270	.01160	.04430	.07940	.07970	1.054	-2.190	-14920	.10230	.09480	-.03650
1.054	-.010	-15650	.10680	.01940	-.01140	.00340	.28200	.01180	.04500	.07770	.07870	1.054	-.010	-15650	.10680	.01940	-.01140
1.054	2.140	-15460	.10630	-.05670	.01590	-.00370	.28620	.01170	.04440	.07500	.07950	1.054	2.140	-15460	.10630	-.05670	.01590
1.054	4.330	-14910	.10240	-.12790	.03870	-.01030	.29410	.01120	.04270	.07000	.07820	1.054	4.330	-14910	.10240	-.12790	.03870
1.054	6.510	-14640	.09870	-.19960	.05880	-.01750	.28890	.01220	.04660	.06820	.08320	1.054	6.510	-14640	.09870	-.19960	.05880
1.054	-.010	-15170	.10360	.02020	-.01220	.00350	.28750	.01110	.04240	.07470	.07500	1.054	-.010	-15170	.10360	.02020	-.01220

RUN NO. 74/ 0		RM/L = 6.54															
MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE	MACH	BETA	CN	CLM	CY	CYN
1.248	-6.840	-09710	.05140	.25690	-.07840	.02920	.29200	.01250	.04750	.07290	.08380	1.248	-6.840	-09710	.05140	.25690	-.07840
1.248	-4.570	-09260	.05330	.16540	-.05130	.02010	.29230	.01220	.04650	.07040	.08080	1.248	-4.570	-09260	.05330	.16540	-.05130
1.248	-2.350	-09390	.05610	.08710	-.02900	.01130	.29100	.01200	.04570	.07000	.07890	1.248	-2.350	-09390	.05610	.08710	-.02900
1.248	-.150	-09400	.05830	.01090	-.00600	.00350	.29230	.01190	.04540	.06940	.07850	1.248	-.150	-09400	.05830	.01090	-.00600
1.248	2.060	-09640	.06120	-.06460	.01730	-.00450	.29480	.01220	.04640	.06880	.07870	1.248	2.060	-09640	.06120	-.06460	.01730
1.248	4.270	-09760	.05990	-.13620	.03650	-.01190	.30020	.01200	.04560	.06480	.07830	1.248	4.270	-09760	.05990	-.13620	.03650
1.248	6.510	-10230	.05940	-.21320	.05440	-.01940	.29780	.01200	.04560	.06250	.08070	1.248	6.510	-10230	.05940	-.21320	.05440
1.248	-.140	-09250	.05560	.01020	-.00770	.00340	.28970	.01160	.04400	.06780	.07460	1.248	-.140	-09250	.05560	.01020	-.00770

RUN NO. 97/ 0		RM/L = 6.49															
MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE	MACH	BETA	CN	CLM	CY	CYN
1.456	-6.640	-08370	.03590	.26060	-.08380	.02900	.29400	.01020	.03900	.05380	.06830	1.456	-6.640	-08370	.03590	.26060	-.08380
1.456	-4.570	-08170	.03850	.16580	-.05390	.01920	.29810	.00950	.03610	.05210	.06390	1.456	-4.570	-08170	.03850	.16580	-.05390
1.456	-2.350	-08130	.04050	.08590	-.03000	.01100	.29490	.00960	.03650	.05230	.06300	1.456	-2.350	-08130	.04050	.08590	-.03000
1.456	-.130	-08220	.04260	.01290	-.01000	.00450	.29690	.00950	.03610	.05240	.06300	1.456	-.130	-08220	.04260	.01290	-.01000
1.456	2.060	-07960	.04250	-.05980	.01080	-.00170	.29560	.00980	.03740	.05210	.06430	1.456	2.060	-07960	.04250	-.05980	.01080
1.456	4.270	-08220	.04290	-.13250	.03110	-.00890	.29940	.00950	.03640	.04980	.06390	1.456	4.270	-08220	.04290	-.13250	.03110
1.456	6.540	-08630	.04600	-.21650	.05430	-.01780	.30060	.01000	.03810	.04800	.06550	1.456	6.540	-08630	.04600	-.21650	.05430
1.456	-.120	-08550	.04330	.01300	-.00960	.00470	.29720	.00930	.03550	.05100	.06120	1.456	-.120	-08550	.04330	.01300	-.00960

WISC TM7610 (1A-71) 77-0.74-75 Z10

ALPHA = .000 ORBINC = .000
FLIPOR = 10.000

MOCH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
995	-6.690	-12.790	.07050	.24630	-.08480	-.02560	.23310	.01210	-.04620	.07060	.08740
995	-4.480	-1.1340	.07930	.16700	-.06030	.01810	.23900	.01140	.04340	.07560	.08290
995	-2.310	-1.1370	.08030	.09140	-.03520	.00100	.24350	.01060	.04030	.07390	.07840
995	-.150	-1.14310	.08560	.01550	-.00810	.00340	.24630	.01060	.04040	.07710	.07910
995	1.990	-1.13560	.08050	-.06000	.01910	-.00330	.24620	.01020	.03990	.06750	.07770
995	4.140	-1.14020	.08900	-.13010	.04430	-.00980	.25940	.01130	.04300	.08220	.08380
995	6.320	-.13540	.08270	-.20300	.06850	-.01700	.25440	.01170	.04470	.08110	.08380
995	-.150	-1.14390	.08600	-.01670	-.00850	-.00350	.24340	.01070	.04080	.07210	.08000

ACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.051	-6.730	-1.2650	.07270	-.24640	-.07950	-.02550	.25670	.01200	-.04580	.08350	.08380
.051	-4.510	-1.1340	.08190	.16750	-.05740	.01790	.26510	.01130	.04320	.08140	.07890
.051	-2.330	-1.13660	.08740	-.02330	-.03490	-.01070	.26830	.01100	.04180	.07960	.07760
.051	-.160	-1.14540	.09320	.01630	-.00850	.00340	.26910	.01090	.04500	.07620	.07650
.051	1.990	-1.14030	.09030	-.05990	.01950	-.00320	.27420	.01080	.04110	.07360	.07660
.051	4.160	-1.13760	.08790	-.12950	.04170	-.01000	.28380	.01050	.04020	.06770	.07920
.051	6.360	-1.13450	.08360	-.20090	.06210	-.01720	.28170	.01130	.04320	.06460	.07920
.051	-140	-1.14600	.08350	-.00930	-.00930	-.00340	.27180	.01070	.04090	.07570	.07500

ACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
253	-6.840	-.09650	.04470	.25610	-.07810	.02900	.28150	.01170	.04450	.06980	.08090
253	-4.580	-.09070	.04640	.16740	-.05240	.02040	.28280	.01120	.04270	.07700	
253	-2.350	-.09080	.04880	.08730	-.02980	.01170	.28160	.01090	.04160	.06710	.07530
253	-.140	-.09440	.05340	.00970	-.00630	.00360	.28070	.01090	.04140	.06550	.07460
253	2.050	-.09620	.05500	-.06370	.01540	-.00410	.28310	.01110	.04230	.06560	.07540
253	4.260	-.09670	.05420	-.14010	.03790	-.01210	.28740	.01130	.04300	.06390	.08110
253	6.510	-.10300	.05550	-.21900	.05850	-.02000	.28740	.01160	.04410	.06230	.08110
253	1.20	-.09540	.05310	.01020	-.00690	.00350	.27990	.01080	.04130	.06560	.07410

1A71 TABULATED SOURCE DATA

MSFC TMT610 (1A-71) 77-0,74-TS Z10

(RIK018) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 10.000

RUN NO. 99/ 0 RN/L = 6.49

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.460	-6.840	-.07490	.02730	.25730	-.08160	.02880	.29040	.01030	.03920	.05470	.06740
1.460	-4.570	-.07400	.02970	.16370	-.05170	.01920	.29450	.00940	.03580	.05290	.06360
1.460	-2.350	-.07330	.03120	.08390	-.02770	.01100	.29180	.00940	.03590	.05270	.06310
1.460	-.140	-.07230	.03340	.01030	-.00770	.00450	.29280	.00930	.03560	.05240	.06250
1.460	2.060	-.07170	.03380	-.06190	.01320	-.00180	.29220	.00970	.03690	.05240	.06350
1.460	4.270	-.07340	.03440	-.13690	.03450	-.00890	.29630	.00950	.03640	.04980	.06360
1.460	6.530	-.07760	.03600	-.21760	.05850	-.01730	.29750	.01000	.03800	.04790	.06470
1.460	-.120	-.07660	.03520	.00890	-.00670	.00470	.29260	.00920	.03530	.05130	.06090

MSFC TMT610 (1A-71) 77-0,74-TS Z10

(RIK019) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 10.000

RUN NO. 49/ 0 RN/L = 5.95

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.802	-6.990	-.95130	.23030	-.00030	-.00270	.00410	.13090	.00850	.03240	.05680	.07750
.802	-4.800	-.42870	.17670	-.00110	-.00290	.00310	.13480	.00830	.03150	.05600	.07400
.802	-2.580	-.29220	.12730	-.00520	-.00070	.00300	.13780	.00780	.02990	.05510	.07050
.802	-.380	-.16640	.07850	-.00240	-.00270	.00230	.13720	.00770	.02940	.05560	.06930
.802	1.840	-.03300	.03080	-.00530	-.00160	.00130	.13560	.00750	.02870	.05470	.06810
.802	4.080	.10540	-.01410	-.00660	-.00140	.00160	.13050	.00750	.02870	.05490	.06750
.802	6.320	.23870	-.06210	-.00820	-.00120	.00230	.12260	.00750	.02840	.05540	.06590
.802	-.380	-.16860	.07990	-.00250	-.00290	.00220	.13850	.00770	.02930	.05580	.06850

RUN NO. 50/ 0 RN/L = 6.28

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.903	-7.140	-.57740	.24280	-.00730	.00150	.00260	.15520	.00930	.03790	.06260	.08120
.903	-4.820	-.42180	.18730	-.00760	.00100	.00170	.15960	.00950	.03630	.05970	.07620
.903	-2.620	-.29410	.13080	-.00690	.00000	.00120	.16330	.00920	.03500	.05890	.07300
.903	-.380	-.16010	.07820	-.00740	-.00040	.00050	.16380	.00890	.03390	.05820	.07180
.903	1.850	-.00990	.01330	-.00830	.00060	-.00090	.16160	.00900	.03440	.05880	.07260
.903	4.100	.12810	-.04120	-.01100	.00160	-.00140	.15480	.00880	.03350	.05890	.07150
.903	6.410	.26820	-.08360	-.01310	.00220	-.00170	.14650	.00900	.03440	.06310	.07250
.903	-.370	-.15840	.07760	-.00920	.00020	.00050	.16910	.00920	.03510	.05990	.07380

ORIGINAL PAGE IN
POOR QUALITY

IA71 TABULATED SOURCE DATA

(RIK019) (16 APR 75)

MSFC THT810 (IA-71) 77-0.74-TS 210

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO. 51/ 0 RN/L = 6.40

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CNBO	CABO	CABS	CABE
.954	-7.180	-58300	.23110	-.01180	.00380	.00210	.18750	.01080	.04040	.08920	.08340
.954	-4.880	-41080	.17770	-.00870	.00170	.00240	.19070	.01020	.03890	.06890	.07980
.954	-2.580	-27610	.13170	-.01020	.00210	.00160	.19280	.01010	.03860	.06610	.07900
.954	-.350	-14630	.07820	-.01110	.00100	.00080	.19170	.01000	.03830	.06510	.07870
.954	1.910	.00260	.01590	-.01090	.00170	-.00030	.18680	.01000	.03830	.06330	.07820
.954	4.140	.13860	-.04550	-.01340	.00270	-.00140	.17790	.01000	.03820	.06300	.07740
.954	6.480	.28580	-.09200	-.01250	.00140	-.00190	.17600	.01030	.03940	.06630	.07880
.954	-.350	-.14990	.08020	-.01000	.00060	.00100	.18790	.01020	.03890	.06600	.07940

RUN NO. 54/ 0 RN/L = 6.47

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CNBO	CABO	CABS	CABE
.997	-7.140	-57220	.25920	.00130	-.00100	.00260	.25330	.01280	.04860	.07190	.08170
.997	-4.820	-41710	.19770	.00040	-.00150	.00240	.25590	.01240	.04720	.06990	.08000
.997	-2.560	-28660	.15000	-.00020	-.00150	.00240	.25090	.01070	.04090	.07100	.08220
.997	-.340	-15440	.08930	.00160	-.00380	.00200	.24760	.01020	.03870	.06830	.07920
.997	1.930	-.00920	.02940	.00150	-.00350	.00140	.25020	.01060	.04040	.06970	.08030
.997	4.170	.13440	-.03730	-.00050	-.00270	.00090	.23680	.01040	.03950	.06740	.07920
.997	6.490	.28300	-.09380	-.00040	-.00310	.00030	.23560	.01060	.04060	.06830	.07790
.997	-.330	-.15380	.08950	.00100	-.00360	.00200	.24740	.01030	.03920	.06910	.08000

RUN NO. 55/ 0 RN/L = 6.56

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CNBO	CABO	CABS	CABE
1.050	-7.220	-58450	.26130	-.00060	.00090	.00250	.27160	.01170	.04450	.07660	.08350
1.050	-4.870	-43010	.20420	.00020	.00000	.00230	.27430	.01150	.04370	.07420	.08060
1.050	-2.580	-29160	.15340	-.00080	.00000	.00180	.27610	.01130	.04310	.07280	.07890
1.050	-.310	-15800	.10080	.00180	-.00240	.00170	.27430	.01110	.04230	.07100	.07770
1.050	1.960	-.01520	.04030	.00280	-.00410	.00130	.26700	.01120	.04280	.06940	.07840
1.050	4.200	.12500	-.02530	.00380	-.00470	.00100	.26680	.01080	.04130	.06700	.07380
1.050	6.550	.27610	-.07980	.00160	-.00420	.00030	.25660	.01110	.04240	.06850	.07350
1.050	-.310	-.16040	.10170	.00170	-.00250	.00180	.27520	.01120	.04270	.07100	.07810

(RIK019) (16 APR 75)

MSFC TW610 (1A-71) 77-0,74-TS Z10

PARAMETRIC DATA

BETA = .000 ORBINC = .003
FLIPOR = 10.000

RUN NO. 53/ 0 RN/L = 6.61

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.103	-7.860	-59270	.86740	.00370	-.00100	.00690	.27660	.01310	.05000	.06230	.06720
1.103	-4.910	-43940	.20930	.00450	-.00180	.00260	.26210	.01280	.04880	.06020	.06410
1.103	-2.580	-29200	.15560	.00470	-.00330	.00250	.26300	.01270	.04830	.07780	.08230
1.103	-.290	-15260	.09990	.00700	-.00470	.00250	.26180	.01250	.04780	.07590	.08340
1.103	2.010	.00060	.03620	.00740	-.00600	.00180	.26340	.01260	.04800	.07390	.08280
1.103	4.290	.14810	-.02720	.00750	-.00730	.00150	.26940	.01230	.04690	.07460	.08170
1.103	6.670	.31190	-.08950	.00560	-.00650	.00130	.26320	.01220	.04630	.07320	.07850
1.103	-.280	-.14810	.09780	.00740	-.00540	.00250	.26280	.01250	.04740	.07530	.08270

RUN NO. 52/ 0 RN/L = 6.64

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.149	-7.410	-64530	.28570	.00120	-.00660	.00400	.26280	.01330	.05050	.08020	.08670
1.149	-4.980	-46080	.21500	.00140	-.00680	.00310	.26330	.01310	.04990	.07800	.08340
1.149	-2.630	-29510	.14930	.00330	-.00770	.00300	.26160	.01300	.04960	.07580	.08270
1.149	-.290	-13670	.08990	.00370	-.00810	.00250	.26030	.01250	.04750	.07220	.08360
1.149	2.010	.01360	.02440	.00460	-.00930	.00210	.27520	.01250	.04750	.07050	.08350
1.149	4.320	.15990	-.03490	.00460	-.01120	.00150	.27670	.01200	.04590	.07250	.07920
1.149	6.690	.32110	-.09710	.00350	-.01010	.00150	.27120	.01240	.04710	.07260	.07810
1.149	-.280	-.13300	.08480	.00370	-.00780	.00250	.26060	.01260	.04780	.07250	.08410

RUN NO. 48/ 0 RN/L = 6.68

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.202	-7.410	-60360	.25210	-.00360	-.00140	.00270	.27850	.01280	.04870	.07430	.08420
1.202	-4.980	-41130	.17500	-.00610	-.00060	.00270	.26020	.01220	.04650	.07090	.08210
1.202	-2.610	-23940	.10370	-.00590	.00030	.00260	.26250	.01190	.04540	.06760	.08010
1.202	-.260	-08440	.04670	-.00630	.00020	.00190	.26440	.01140	.04340	.06510	.08000
1.202	2.040	.05940	-.00970	-.00470	-.00090	.00180	.27960	.01150	.04370	.06490	.08070
1.202	4.360	.20400	-.06820	-.00590	-.00140	.00130	.27730	.01160	.04440	.06690	.07760
1.202	6.720	.35270	-.12210	-.00550	-.00190	.00110	.27080	.01200	.04560	.06880	.07710
1.202	-.250	-.07960	.04700	-.00550	-.00010	.00230	.26680	.01120	.04280	.06270	.07830

IA71 TABULATED SOURCE DATA

(RIK019) (16 APR 75)

MSFC TWT810 (IA-71) 77-0.74-TS Z10

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO. 47/ 0 RN/L = 6.67

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.251	-7.430	-59960	.24990	-.00240	-.00090	.00330	.27980	.01220	.04540	.07070	.08090
1.251	-4.990	-41160	.17550	-.00160	-.00150	.00320	.27930	.01230	.04690	.06720	.08010
1.251	-2.610	-24210	.10970	-.00130	-.00160	.00300	.28400	.01190	.04540	.06470	.07750
1.251	-.250	-.08730	.05240	-.00050	-.00260	.00250	.28650	.01170	.04440	.06320	.07690
1.251	2.050	.05330	-.00310	.00060	-.00400	.00190	.28100	.01180	.04490	.06200	.07700
1.251	4.360	.19370	-.06060	-.00040	-.00400	.00150	.27680	.01200	.04590	.06510	.07490
1.251	6.710	.33820	-.11460	.00090	-.00510	.00130	.27170	.01220	.04650	.06700	.07480
1.251	-.250	-.07910	.04610	-.00530	.00080	.00260	.28540	.01150	.04370	.06080	.07370

RUN NO. 100/ 0 RN/L = 6.49

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.460	-7.450	-55940	.21790	-.01380	.00370	.00300	.29580	.00960	.03650	.05320	.06440
1.460	-5.020	-.39070	.14830	-.00610	-.00060	.00350	.29730	.00920	.03510	.04900	.06340
1.460	-2.640	-.22020	.08940	-.00740	.00060	.00330	.29820	.00920	.03490	.04840	.06270
1.460	-.270	-.06890	.03430	-.00720	.00010	.00270	.29610	.00940	.03580	.04840	.06270
1.460	2.080	.07770	-.01870	-.00720	.00030	.00210	.29570	.00940	.03600	.04810	.06140
1.460	4.390	.21180	-.07010	-.00680	-.00060	.00220	.29560	.00920	.03490	.04870	.05960
1.460	6.750	.35340	-.12240	-.00720	-.00010	.00190	.29360	.00930	.03550	.05020	.05850
1.460	-.230	-.06680	.03660	-.00750	-.00020	.00280	.29390	.00940	.03570	.04800	.06150

RUN NO. 106/ 0 RN/L = 7.03

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.967	-7.470	-52390	.20370	-.01090	.00320	.00200	.28370	.00700	.02660	.03650	.04650
1.967	-5.070	-.36750	.14660	-.00960	.00310	.00180	.27910	.00700	.02680	.03390	.04700
1.967	-2.670	-.22850	.09810	-.00980	.00340	.00170	.27690	.00700	.02680	.03400	.04570
1.967	-.310	-.09250	.04010	-.00870	.00320	.00190	.26910	.00730	.02790	.03490	.04370
1.967	2.030	.04010	.01000	-.00760	.00260	.00210	.26160	.00750	.02850	.03530	.04220
1.967	4.340	.17110	-.05000	-.00620	.00190	.00230	.26390	.00770	.02920	.03570	.04150
1.967	6.700	.31410	-.11100	-.00730	.00320	.00280	.26760	.00740	.02820	.03520	.03960
1.967	-.270	-.08380	.04130	-.00750	.00360	.00170	.26260	.00700	.02690	.03400	.04220

IA71 TABULATED SOURCE DATA

(RIK020) (16 APR 75)

MSFC TMT810 (IA-71) 77-0.74-75 210 (INCIDENCE)

PARAMETRIC DATA

BETA = .000 ORBINC = -3.000
FLIPOR = .000

RUN NO. 33/ 0 RN/L = 5.93

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.799	-7.070	-.60340	.25950	-.02190	.00450	-.00110	.13220	.00920	.03530	.05660	.07480
.799	-4.660	-.47040	.19930	-.01630	.00180	-.00110	.13170	.00920	.03490	.05530	.07060
.799	-2.640	-.32510	.14070	-.02020	.00280	-.00080	.13010	.00900	.03430	.05580	.06830
.799	-.440	-.19480	.08870	-.01780	.00210	.00000	.13280	.00850	.03260	.05500	.06520
.799	1.750	-.07530	.04800	-.01880	.00270	.00020	.12640	.00870	.03330	.05630	.06780
.799	3.990	.05490	.00790	-.02100	.00330	.00040	.12100	.00870	.03330	.05720	.06860
.799	6.250	.18880	-.03610	-.02640	.00470	.00100	.11260	.00860	.03300	.05890	.06720
.799	-.450	-.19570	.06740	-.01610	.00150	.00000	.13190	.00870	.03330	.05580	.06620

RUN NO. 27/ 0 RN/L = 6.27

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.902	-7.210	-.61190	.25660	-.02660	.01000	-.00120	.15250	.01060	.04060	.06110	.08200
.902	-4.920	-.45960	.19630	-.02530	.00860	-.00200	.15030	.01070	.04070	.05900	.08020
.902	-2.700	-.31840	.13350	-.02690	.00920	-.00180	.15330	.01050	.04010	.05850	.07780
.902	-.480	-.18060	.07310	-.02660	.00890	-.00180	.15100	.01030	.03920	.05900	.07620
.902	1.750	-.04730	.02110	-.03010	.01060	-.00210	.14650	.01000	.03830	.05890	.07510
.902	4.000	.09480	-.03570	-.03350	.01210	-.00170	.14590	.01010	.03860	.06130	.07390
.902	6.260	.23260	-.08430	-.03470	.01150	-.00140	.13590	.01010	.03840	.06420	.07370
.902	-.480	-.18210	.07500	-.02910	.01030	-.00210	.15190	.01060	.04030	.06060	.07780

RUN NO. 26/ 0 RN/L = 6.58

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.048	-7.370	-.68130	.31510	-.01060	.00730	-.00040	.25370	.01270	.04830	.07790	.08880
1.048	-5.020	-.51950	.25160	-.01340	.00910	-.00080	.25600	.01240	.04720	.07630	.08550
1.048	-2.710	-.36710	.19260	-.01550	.01160	-.00100	.25840	.01210	.04610	.07500	.08140
1.048	-.430	-.22630	.13580	-.01540	.01030	-.00070	.25270	.01230	.04680	.07560	.07990
1.048	1.830	-.09040	.08060	-.01560	.00700	-.00040	.24680	.01260	.04790	.07510	.08050
1.048	4.110	.05920	.01530	-.01170	.00100	-.00070	.24750	.01210	.04600	.07330	.07600
1.048	6.430	.20460	-.04020	-.01450	.00080	.00140	.23440	.01240	.04730	.07620	.07550
1.048	-.420	-.22510	.13560	-.01590	.01100	-.00070	.25140	.01250	.04750	.07640	.08080

MSFC THT810 (1A-71) 77-0, 74-75 Z10 (INCIDENCE)

(RIK020) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = -3.000
FLIPOR = .000

RUN NO. 25/ 0 RN/L = 6.61

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CBO	CABS	CABE
1.096	-7.410	-69420	.32780	-.00030	.00050	.00110	.27220	.01160	.04430	.07510	.08120
1.096	-5.040	-53570	.26870	-.00160	.00110	.00090	.26660	.01230	.04690	.07740	.08350
1.096	-2.720	-37980	.20810	-.00350	.00160	.00080	.27020	.01200	.04560	.07480	.07880
1.096	-.410	-22680	.14290	-.00210	-.00010	.00090	.26850	.01190	.04530	.07260	.07770
1.096	1.860	-08950	.08730	-.00500	-.00020	.00070	.26120	.01240	.04710	.07290	.07910
1.096	4.150	.05850	.02330	-.00450	-.00190	.00150	.25900	.01220	.04640	.07160	.07560
1.096	6.500	.21150	-.03520	-.00810	-.00140	.00200	.24920	.01230	.04680	.07380	.07330
1.096	-.410	-.22720	.14280	-.00200	.00030	.00110	.26800	.01210	.04620	.07290	.07770

RUN NO. 24/ 0 RN/L = 6.69

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CBO	CABS	CABE
1.250	-7.530	-67960	.30410	-.00490	-.00090	.00080	.27840	.01150	.04380	.06990	.07580
1.250	-5.110	-49720	.23240	-.01020	.00210	.00070	.27550	.01160	.04430	.06840	.07580
1.250	-2.730	-33300	.16870	-.01510	.00550	.00030	.27270	.01220	.04640	.06690	.07740
1.250	-.370	-17810	.10990	-.01300	.00200	.00080	.27310	.01250	.04760	.06830	.07320
1.250	1.920	-03290	.04860	-.01300	.00110	.00090	.26750	.01290	.04920	.06660	.07660
1.250	4.230	.11040	-.01000	-.01660	.00210	.00060	.26430	.01310	.04980	.06920	.07550
1.250	6.580	.25870	-.06790	-.01860	.00320	.00030	.25740	.01280	.04890	.07070	.07010
1.250	-.370	-.16960	.10450	-.01310	.00310	.00070	.27390	.01230	.04680	.06680	.07130

RUN NO. 23/ 0 RN/L = 6.52

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CBO	CABS	CABE
1.463	-7.510	-67580	.31250	-.01550	.00450	-.00020	.30860	.01020	.03880	.05680	.06430
1.463	-5.090	-50120	.24350	-.01420	.00420	.00000	.30410	.01000	.03790	.05360	.05590
1.463	-2.720	-34260	.18290	-.01800	.00770	.00000	.30360	.01010	.03830	.05210	.06280
1.463	-.380	-19090	.12250	-.01910	.00770	-.00020	.29910	.01030	.03910	.05200	.05970
1.463	1.950	-.04410	.06540	-.02160	.00950	-.00030	.29360	.01050	.04010	.05190	.05840
1.463	4.250	.09640	.00610	-.02420	.01160	-.00080	.29180	.01050	.03990	.05330	.05830
1.463	6.600	.23840	-.04790	-.02690	.01260	-.00110	.28810	.01040	.03950	.05390	.05420
1.463	-.360	-.18570	.12270	-.01930	.00810	-.00040	.29740	.01030	.03930	.05150	.05770

1A71 TABULATED SOURCE DATA

MSFC TW1610 (1A-71) 77-0.74-TS Z10 SEALED W/CAP (RIK021) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 34/ 0 RN/L = 6.63

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.110	-7.310	-63400	.29890	.00920	-.00330	.00420	.30270	.01180	.04490	.07430	.07900
1.110	-4.940	-47040	.23610	.00760	-.00400	.00390	.30180	.01150	.04360	.07050	.07480
1.110	-2.620	-32770	.19370	.00660	-.00320	.00370	.30180	.01130	.04290	.06810	.07170
1.110	-3.30	-18830	.12890	.00440	-.00200	.00300	.29710	.01110	.04240	.06730	.07450
1.110	1.960	-44170	.06870	.00230	-.00140	.00250	.29020	.01140	.04360	.06530	.07300
1.110	4.270	.11100	.00150	.00000	-.00140	.00200	.29510	.01160	.04410	.06740	.07140
1.110	6.610	.27230	-.06160	-.00170	-.00090	.00180	.28070	.01130	.04300	.06640	.06690
1.110	-3.320	-.18610	.12800	.00440	-.00170	.00310	.29950	.01110	.04240	.06680	.07370

MSFC TW1610 (1A-71) 77-0.74-TS Z10 W/FAIRINGS F3 (RIK022) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 37/ 0 RN/L = 6.27

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.045	-7.160	-50700	.18150	-.01520	.00800	.00170	.15200	.01030	.03910	.06020	.07950
1.045	-4.860	-34770	.11700	-.01970	.00920	.00090	.15760	.01000	.03800	.05730	.07730
1.045	-2.660	-20630	.04820	-.01970	.00830	.00060	.16140	.00950	.03520	.05690	.07350
1.045	-4.20	-07190	-.00640	-.02250	.00910	-.00030	.15770	.00970	.03690	.05920	.07370
1.045	1.820	.07500	-.06520	-.02250	.00960	-.00120	.15910	.00890	.03390	.05600	.07070
1.045	4.080	.20280	-.10870	-.02190	.00810	-.00170	.15280	.00930	.03560	.05960	.07270
1.045	6.380	.32540	-.13730	-.02240	.00720	-.00110	.14590	.00900	.03440	.06310	.07260
1.045	-4.10	-.06690	-.00740	-.02070	.00850	-.00020	.15960	.00960	.03660	.05870	.07340

RUN NO. 36/ 0 RN/L = 6.57

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.045	-7.260	-56200	.23890	.00010	.00020	.00150	.25960	.01270	.04590	.06090	.08410
1.045	-4.890	-40040	.17630	-.00080	.00040	.00130	.26170	.01220	.04650	.07970	.08010
1.045	-2.570	-24270	.11950	-.00270	.00120	.00110	.26490	.01190	.04530	.07670	.07690
1.045	-3.60	-11810	.05630	-.00550	.00150	.00080	.25800	.01210	.04610	.07570	.08000
1.045	1.910	.03350	-.01020	-.00820	.00170	.00080	.25810	.01210	.04600	.07250	.07630
1.045	4.210	.17870	-.07030	-.00850	.00190	.00070	.25850	.01230	.04700	.07350	.07420
1.045	6.530	.32650	-.12500	-.01020	.00230	.00050	.24740	.01290	.04930	.07680	.07420
1.045	-3.350	-.11430	.05500	-.00440	.00100	.00080	.25790	.01220	.04660	.07610	.08020

1A71 TABULATED SOURCE DATA

(RIK022) (16 APR 75)

MSFC TW7610 (1A-71) 77-0.7N-TS Z10 W/FAIRINGSF3

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 35/ 0 RN/L = 6.69

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CBO	CBS	CABE
1.249	-7.430	-49220	.21230	.00000	-.00380	.00300	.28060	.01200	.04570	.07050	.07370
1.249	-5.030	-37080	.13990	-.00350	-.00300	.00270	.28380	.01170	.04460	.06820	.07150
1.249	-2.640	-20860	.07820	-.00660	-.00050	.00170	.28960	.01140	.04350	.06500	.06960
1.249	-.310	-06230	.02110	-.00700	-.00130	.00180	.28950	.01200	.04570	.06480	.07260
1.249	2.000	.07820	-.03400	-.00630	-.00200	.00130	.28540	.01230	.04680	.06550	.07390
1.249	4.310	.21830	-.08790	-.00760	-.00170	.00070	.28540	.01240	.04710	.06840	.06900
1.249	6.670	.36220	-.14110	-.01140	.00010	.00010	.27940	.01290	.04910	.06970	.06890
1.249	-.300	-.05600	.01770	-.00670	-.00020	.00190	.28910	.01180	.04510	.06380	.07130

MSFC TW7610 (1A-71) 77-0.7N-TS Z10 W/FAIRINGSF5

(RIK023) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 41/ 0 RN/L = 6.32

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CBO	CBS	CABE
1.897	-7.120	-49220	.17790	-.01050	.00290	.00210	.15960	.01050	.03990	.05910	.07410
1.897	-4.910	-34850	.10780	-.01280	.00390	.00140	.15300	.01040	.03970	.05590	.07970
1.897	-2.650	-20630	.04740	-.01450	.00550	.00080	.15620	.01000	.03810	.05480	.07720
1.897	-.400	-06950	-.00330	-.01760	.00650	.00000	.15540	.00980	.03750	.05430	.07540
1.897	1.860	.08040	-.06060	-.02250	.00980	-.00080	.15760	.00980	.03740	.05490	.07380
1.897	4.140	.20260	-.09540	-.02200	.00800	-.00240	.15270	.00950	.03760	.05730	.07270
1.897	6.390	.33000	-.13250	-.02360	.00810	-.00170	.14820	.00940	.03590	.06260	.07270
1.897	-.400	-.06530	-.00510	-.01780	.00750	.00050	.16160	.00990	.03760	.05490	.07490

RUN NO. 42/ 0 RN/L = 6.60

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNO	CBO	CBS	CABE
1.045	-7.210	-55460	.24050	.00930	-.00280	.00240	.25010	.01200	.04870	.08390	.09670
1.045	-4.910	-40390	.17060	.00790	-.00380	.00130	.25220	.01250	.04760	.08070	.09740
1.045	-2.640	-26020	.11450	.00730	-.00300	.00220	.25430	.01220	.04640	.07820	.09370
1.045	-.340	-10990	.05310	.00520	-.00170	.00250	.25360	.01240	.04740	.07800	.08400
1.045	1.970	.04160	-.00420	.00530	-.00190	.00270	.25120	.01310	.04990	.07780	.08450
1.045	4.290	.20110	-.06330	.00300	-.00140	.00260	.25740	.01230	.04670	.07500	.07350
1.045	6.590	.34530	-.12640	-.00020	.00000	.00180	.24470	.01300	.04960	.07920	.07400
1.045	-.330	-.10850	.05320	.00630	-.00220	.00240	.25360	.01260	.04800	.07880	.08400

1A71 TABULATED SOURCE DATA

(RIK023) (16 APR 75)

MSFC THT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF5

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 43/ 0 RN/L = 6.74

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.249	-7.410	-54590	.21170	-.00190	-.00310	.00290	.27180	.01200	.04580	.07010	.07300
1.249	-5.010	-36560	.14080	-.00470	-.00260	.00270	.27390	.01200	.04580	.06850	.07180
1.249	-2.680	-22480	.08250	-.00450	-.00430	.00230	.27650	.01170	.04470	.06650	.07900
1.249	-.350	-.07350	.02190	-.00600	-.00300	.00230	.27840	.01220	.04630	.06620	.07590
1.249	2.000	.07820	-.03290	-.00780	-.00120	.00120	.27700	.01280	.04880	.06460	.07170
1.249	4.360	.22740	-.08570	-.01090	.00000	.00020	.27600	.01280	.04860	.06830	.06830
1.249	6.680	.37090	-.14140	-.01540	.00260	-.00040	.27060	.01290	.04920	.06940	.06950
1.249	-.340	-.06540	.01680	-.00740	-.00080	.00210	.28020	.01170	.04460	.06340	.07100

(RIK024) (16 APR 75)

MSFC THT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF11

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 46/ 0 RN/L = 6.32

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.007	-7.150	-50550	.18510	-.01990	.01170	-.00010	.14590	.00990	.03760	.05710	.07400
1.007	-4.840	-34930	.12460	-.01990	.01140	-.00020	.14540	.00970	.03700	.05340	.07420
1.007	-2.620	-21160	.06320	-.01790	.00950	-.00040	.14920	.00980	.03730	.05300	.07340
1.007	-.380	-.07330	.00560	-.02100	.01070	-.00040	.14740	.00950	.03620	.05430	.07300
1.007	1.060	.07540	-.05620	-.02270	.01280	-.00130	.14740	.00920	.03520	.05360	.07070
1.007	4.100	.19570	-.09500	-.02290	.01110	-.00270	.14130	.00920	.03490	.05620	.06990
1.007	6.420	.32460	-.12540	-.02460	.01120	-.00210	.13390	.00880	.03360	.06100	.07080
1.007	-.380	-.07210	.00560	-.01930	.00980	-.00020	.14890	.00950	.03610	.05410	.07220

RUN NO. 45/ 0 RN/L = 6.61

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.045	-7.300	-59890	.25810	.00100	.00530	.00020	.24280	.01340	.05160	.08190	.08570
1.045	-4.960	-42630	.18870	.00020	.00460	.00020	.24720	.01300	.04940	.07840	.08240
1.045	-2.620	-26830	.12700	.00130	.00300	.00080	.25110	.01270	.04850	.07780	.07940
1.045	-.340	-.12270	.06540	.00230	.00130	.00110	.25050	.01310	.05000	.07720	.08080
1.045	1.950	.02580	.00520	.00360	-.00020	.00210	.24660	.01350	.05150	.07680	.08070
1.045	4.200	.17520	-.06530	.00300	-.00140	.00200	.25150	.01280	.04890	.07460	.07490
1.045	6.550	.32140	-.11440	.00000	-.00040	.00140	.24140	.01320	.05040	.07840	.07540
1.045	-.330	-.12400	.06710	.00330	.00100	.00120	.24890	.01350	.05130	.07860	.08230

ORIGINAL PAGE 12
OF POOR QUALITY

IA71 TABULATED SOURCE DATA

PAGE 44

MSFC TMT810 (1A-71) 77-0.7N-TS 210 N/FAIRING08F11

(RIK024) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 44/ 0 RN/L = 8.72

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.248	-7.450	-.53380	.19180	-.01440	.01290	.00040	.26230	.01140	.04340	.05940	.07190
1.248	-5.040	-.35420	.12390	-.01460	.01080	.00030	.26530	.01090	.04140	.05890	.07000
1.246	-2.660	-.19930	.06680	-.01440	.00960	.00050	.27110	.01060	.04040	.06060	.06580
1.248	-.310	-.05470	.01620	-.01520	.00910	.00090	.27290	.01090	.04150	.06150	.06280
1.248	2.010	.08670	-.03960	-.01700	.00970	.00020	.27030	.01120	.04280	.05940	.06190
1.248	4.340	.22510	-.09160	-.01860	.00890	.00000	.26860	.01150	.04400	.06310	.05950
1.248	6.700	.37080	-.14210	-.01630	.00590	.00000	.26270	.01180	.04510	.06580	.05830
1.248	-.290	-.05000	.01540	-.01530	.00910	.00080	.27250	.01090	.04160	.06160	.06280

MSFC TMT810 (1A-71) 7N-OTS 213

(RIK025) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 370/ 0 RN/L = 5.97

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.799	-7.130	-.57320	.25010	-.00670	.00050	.00160	.13460	.01000	.03910	.05180	.07560
.799	-4.920	-.44320	.19570	-.00350	.00090	.00150	.13880	.00960	.03670	.05060	.07330
.799	-2.700	-.31310	.14910	-.00230	.00180	.00220	.13940	.00920	.03500	.05190	.07050
.799	-.500	-.18930	.10270	-.00170	.00280	.00210	.13670	.00900	.03440	.05260	.06920
.799	1.700	-.08580	.06130	-.00410	.00160	.00180	.13370	.00890	.03390	.05240	.06830
.799	3.940	.06960	.01670	-.00870	.00050	.00200	.12770	.00890	.03390	.05350	.06710
.799	6.190	.21500	-.03920	-.01060	.00130	.00150	.11840	.00870	.03300	.05410	.06460
.799	-.480	-.19120	.10380	-.00300	.00170	.00210	.13810	.00900	.03440	.05250	.06900

RUN NO. 371/ 0 RN/L = 6.30

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.902	-7.260	-.59890	.26540	-.01120	.00580	-.00010	.15410	.01110	.04230	.05680	.08050
.902	-4.960	-.44580	.20770	-.01060	.00470	-.00040	.15890	.01070	.04070	.05470	.07580
.902	-2.740	-.31050	.14940	-.01010	.00340	-.00090	.15930	.01040	.03920	.05540	.07410
.902	-.510	-.17010	.09010	-.01370	.00490	-.00100	.15830	.01000	.03820	.05460	.07260
.902	1.720	-.01540	.02020	-.01210	.00400	-.00200	.15310	.00990	.03760	.05420	.07220
.902	3.960	.12500	-.04050	-.00860	.00090	-.00100	.14620	.00970	.03690	.05520	.07070
.902	6.270	.26040	-.07800	-.01100	.00180	-.00020	.14150	.00960	.03650	.05790	.07090
.902	-.490	-.17160	.09100	-.01010	.00340	-.00080	.15970	.01010	.03860	.05510	.07310

1A71 TABULATED SOURCE DATA

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MSFC TW610 (1A-71) 74-OTS 213

(RIK025) (18 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 372/ 0 RN/L = 6.41

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.945	-7.310	-50830	.25710	-.01350	.00590	-.00110	.18940	.01180	.04490	.06500	.08300
.945	-4.980	-43670	.20240	-.01410	.00620	-.00150	.19190	.01170	.04440	.06250	.08120
.945	-2.720	-30460	.15440	-.01710	.00860	-.00120	.17570	.01120	.04270	.05790	.08050
.945	-4.70	-16520	.09780	-.01670	.00800	-.00120	.18040	.01160	.04430	.05920	.08220
.945	1.780	-.00220	.01760	-.01560	.00720	-.00240	.17240	.01080	.04130	.05610	.07720
.945	3.980	.13360	-.04110	-.01570	.00640	-.00170	.16280	.01060	.04020	.05790	.07610
.945	6.300	.28110	-.09690	-.01740	.00610	-.00100	.15740	.01050	.04000	.06240	.07700
.945	-.460	-.16420	.09510	-.01540	.00720	-.00120	.17730	.01080	.04120	.05680	.07760

RUN NO. 377/ 0 RN/L = 6.51

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.998	-7.300	-.64170	.31320	.00320	-.00290	.00070	.23190	.01470	.05590	.08630	.10120
.998	-4.970	-.48000	.25070	.00220	-.00260	.00070	.23620	.01450	.05520	.08390	.09790
.998	-2.680	-.33620	.19590	.00180	-.00250	.00080	.23590	.01450	.05540	.08220	.09610
.998	-.400	-.18910	.13520	.00030	-.00060	.00090	.24230	.01450	.05520	.07920	.09210
.998	1.850	-.03530	.05900	-.00010	-.00010	.00070	.22930	.01470	.05590	.07650	.09330
.998	4.080	.11740	-.01320	-.00070	-.00090	.00060	.22720	.01460	.05570	.07750	.09030
.998	6.390	.27970	-.08360	-.00200	-.00040	.00060	.21170	.01410	.05390	.08010	.08940
.998	-.390	-.18920	.13330	.00000	-.00050	.00090	.23160	.01460	.05560	.07940	.09440

RUN NO. 378/ 0 RN/L = 6.56

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.051	-7.360	-.63900	.31010	.00310	-.00230	.00070	.26250	.01300	.04940	.08230	.09070
1.051	-5.020	-.47470	.24680	.00280	-.00190	.00050	.26440	.01270	.04850	.07910	.08710
1.051	-2.690	-.32790	.19050	.00140	-.00060	.00070	.26670	.01250	.04770	.07540	.08360
1.051	-.400	-.17210	.12480	.00060	.00030	.00090	.26210	.01260	.04820	.07290	.08150
1.051	1.860	-.01670	.05030	.00040	.00000	.00070	.25300	.01280	.04890	.06960	.08130
1.051	4.120	.13680	-.02330	.00120	-.00050	.00110	.25030	.01260	.04790	.06850	.07680
1.051	6.430	.28320	-.07740	.00050	-.00150	.00100	.23760	.01290	.04910	.07210	.07660
1.051	-.390	-.17260	.12530	.00000	.00010	.00070	.26090	.01290	.04170	.07360	.08230

IA71 TABULATED SOURCE DATA

(RIK025) (16 APR 75)

MSFC TWT810 (IA-71) 7N-075 213

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 376/ 0 RN/L = 6.66

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.104	-7.410	-6.3280	.30080	.00500	-.00460	.00100	.27760	.01280	.04860	.08330	.08780
1.104	-5.030	-4.6610	.23800	.00410	-.00400	.00040	.28210	.01250	.04770	.07960	.08450
1.104	-2.700	-3.1090	.17730	.00340	-.00270	.00090	.28310	.01250	.04760	.07540	.08200
1.104	-.380	-.15320	.11180	.00160	-.00100	.00090	.27820	.01280	.04680	.07370	.08170
1.104	1.920	.00050	.04230	.00170	-.00120	.00020	.26950	.01300	.04950	.07100	.08310
1.104	4.190	.14550	-.02280	.00100	-.00160	.00020	.26330	.01310	.04990	.07150	.08110
1.104	6.530	.30080	-.08190	.00200	-.00270	.00070	.26040	.01270	.04840	.07030	.07670
1.104	-.370	-.15640	.11310	.00120	-.00050	.00060	.27610	.01310	.04970	.07460	.08320

RUN NO. 375/ 0 RN/L = 6.69

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.149	-7.460	-6.4390	.30380	.00490	-.00940	.00150	.28390	.01280	.04880	.08110	.08650
1.149	-5.050	-4.5660	.22820	.00410	-.00840	.00100	.28540	.01260	.04800	.07710	.08320
1.149	-2.700	-.28100	.15340	.00390	-.00840	.00080	.28660	.01250	.04760	.07200	.08140
1.149	-.350	-.11790	.08800	.00260	-.00620	.00090	.27960	.01290	.04910	.07000	.08330
1.149	1.940	.03120	.02320	.00340	-.00670	.00080	.27230	.01300	.04940	.06810	.08310
1.149	4.230	.18010	-.04050	.00410	-.00710	.00120	.26540	.01300	.04960	.07040	.08110
1.149	6.600	.33750	-.10190	.00180	-.00590	.00120	.26500	.01330	.05050	.07120	.07950
1.149	-.330	-.11990	.08900	.00160	-.00580	.00080	.28000	.01290	.04920	.07010	.08330

RUN NO. 373/ 0 RN/L = 6.72

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.203	-7.510	-.60140	.26140	-.00820	.00160	-.00120	.28170	.01210	.04610	.07250	.08290
1.203	-5.080	-.40680	.18130	-.01120	.00400	-.00130	.28310	.01190	.04520	.06930	.08100
1.203	-2.710	-.23710	.11250	-.01240	.00840	-.00150	.28330	.01170	.04460	.06400	.07970
1.203	-.360	-.07720	.05050	-.01130	.00500	-.00140	.28220	.01200	.04380	.06330	.08040
1.203	1.940	.06570	-.00710	-.00960	.00360	-.00100	.27790	.01210	.04600	.06340	.08040
1.203	4.240	.20570	-.06500	-.00920	.00270	-.00100	.27660	.01200	.04570	.06440	.07790
1.203	6.610	.35910	-.12120	-.00750	.00990	-.00070	.26950	.01240	.04720	.06640	.07750
1.203	-.320	-.07400	.05100	-.01190	.00530	-.00160	.28590	.01160	.04420	.06070	.07860



IA71 TABULATED SOURCE DATA

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MSFC TWT810 (1A-71) 7N-OTS Z13

(RIK025) (18 APR 78)

PARAMETRIC DATA

BETA = .000 OMBINC = .000
FLIPOR = 20.000

RUN NO. 374/ 0 RN/L = 6.72										
MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS
1.248	-7.520	-.99330	.25610	-.00430	-.00160	.00050	.28180	.01180	.04500	.06920
1.248	-5.090	-.40470	.17980	-.00650	.00010	.00010	.28270	.01160	.04420	.06870
1.248	-2.710	-.23770	.11570	-.00760	.00190	-.00010	.28640	.01150	.04390	.06820
1.248	-.340	-.08000	.05660	-.00760	.00170	-.00020	.28380	.01180	.04500	.06140
1.248	1.960	.05940	.00110	-.00600	.00010	-.00020	.27940	.01210	.04620	.06130
1.248	4.260	.19800	-.05540	-.00470	-.00150	-.00040	.27500	.01220	.04660	.06420
1.248	6.620	.35000	-.11560	-.00450	-.00190	-.00020	.26930	.01230	.04670	.06520
1.248	-.320	-.07540	.05300	-.00910	.00390	-.00010	.28410	.01160	.04400	.06030

RUN NO. 356/ 0 RN/L = 6.54										
MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS
1.461	-7.550	-.56900	.23350	-.00670	-.00090	.00010	.30280	.00940	.03570	.05100
1.461	-5.130	-.39070	.16200	-.00150	-.00270	.00030	.30240	.00900	.03430	.04720
1.461	-2.760	-.22480	.09670	-.00540	-.00080	.00000	.30100	.00910	.03450	.04740
1.461	-.390	-.07300	.04090	-.00720	.00050	-.00040	.29790	.00930	.03540	.04710
1.461	1.960	.07580	-.01250	-.00820	.00160	-.00060	.29410	.00950	.03610	.04660
1.461	4.250	.20550	-.06340	-.00840	.00140	-.00100	.29280	.00920	.03530	.04720
1.461	6.610	.34610	-.11610	-.01070	.00260	-.00110	.28750	.00940	.03600	.04920
1.461	-.380	-.07350	.04400	-.00660	-.00030	-.00040	.29620	.00930	.03530	.04660

RUN NO. 357/ 0 RN/L = 7.07										
MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS
1.957	-7.580	-.52580	.20750	-.00110	-.00100	.00060	.29570	.00670	.02560	.03580
1.957	-5.180	-.37090	.14990	-.00190	-.00050	.00020	.29080	.00680	.02580	.03290
1.957	-2.810	-.22960	.09890	-.00450	.00110	-.00020	.28680	.00680	.02610	.03340
1.957	-.450	-.09420	.05020	-.00660	.00270	-.00050	.28500	.00700	.02670	.03330
1.957	1.910	.04300	-.00130	-.00730	.00380	-.00080	.27360	.00720	.02750	.03460
1.957	4.220	.17830	-.05860	-.00840	.00440	-.00120	.26770	.00730	.02770	.03530
1.957	6.550	.32010	-.11810	-.01010	.00540	-.00060	.26640	.00720	.02730	.03410
1.957	-.410	-.08620	.04800	-.00630	.00260	-.00090	.27370	.00690	.02630	.03280

1A71 TABULATED SOURCE DATA

MSFC TWT810 (1A-71) 74-OTS 213 (R1K026) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 369/ 0 RN/L = 5.95

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.800	-7.150	-62770	.26200	.00080	-.00380	.00200	.14620	.00980	.03750	.03170	.07960
.800	-4.930	-49790	.23910	.00120	-.00430	.00170	.15300	.00960	.03650	.05030	.07490
.800	-2.710	-36390	.19010	-.00220	-.00260	.00190	.15510	.00930	.03560	.05120	.07260
.800	-.510	-24080	.14460	-.00230	-.00300	.00180	.15550	.00910	.03460	.05210	.07050
.800	1.710	-11440	.10180	-.00390	-.00190	.00140	.15050	.00890	.03410	.05210	.07020
.800	3.920	.01850	.05770	-.01050	.00100	.00040	.14600	.00870	.03300	.05230	.06760
.800	6.180	.16960	-.00230	-.01360	.00250	.00030	.13540	.00850	.03230	.05390	.06480
.800	-.500	-.24300	.14540	-.00510	-.00180	.00130	.15740	.00910	.03460	.05210	.07020

RUN NO. 368/ 0 RN/L = 6.30

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.903	-7.270	-64630	.30510	-.00610	.00190	.00000	.17300	.01140	.04330	.05600	.08150
.903	-4.970	-49710	.25070	-.00900	.00380	-.00040	.17300	.01140	.04340	.05560	.07980
.903	-2.750	-36180	.19320	-.00810	.00180	-.00060	.17520	.01060	.04030	.05470	.07600
.903	-.520	-23160	.14060	-.01080	.00290	-.00040	.17290	.01030	.03910	.05520	.07540
.903	1.710	-.08390	.07720	-.00950	.00200	-.00090	.16490	.01020	.03880	.05600	.07590
.903	3.950	.07530	.00220	-.01180	.00260	-.00130	.15790	.00990	.03780	.05680	.07430
.903	6.260	.22530	-.05030	-.01040	.00120	-.00050	.14900	.00970	.03700	.05680	.07270
.903	-.490	-.22390	.13810	-.00900	.00200	-.00070	.17480	.01040	.03970	.05640	.07640

RUN NO. 365/ 0 RN/L = 6.52

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.000	-7.300	-66780	.33850	.00280	-.00340	.00050	.25400	.01480	.05620	.08510	.10200
1.000	-4.990	-51240	.27980	.00240	-.00310	.00030	.25680	.01460	.05570	.08290	.09930
1.000	-2.680	-37550	.22980	.00180	-.00270	.00030	.25320	.01450	.05540	.08080	.09670
1.000	-.420	-23700	.17440	.00050	-.00140	.00060	.25680	.01450	.05540	.07740	.09400
1.000	1.810	-.08800	.10280	-.00070	-.00090	.00040	.24660	.01470	.05590	.07540	.09510
1.000	4.080	.07680	.02320	-.00190	-.00030	.00030	.23940	.01460	.05550	.07660	.09140
1.000	6.380	.24520	-.05290	-.00250	-.00080	.00080	.22240	.01400	.05320	.07890	.09000
1.000	-.430	-.24000	.17460	.00070	-.00180	.00030	.24930	.01450	.05540	.07750	.09700

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

A71 TABULATED SOURCE DATA

MSFC TWTB10 (1A-71) 74-OTS 213

RUN NO. 384 / 0 MW/L = 6.60

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNG	CABO	CAB5	CABE
1.048	-7.350	-96320	.33170	.00260	-.00330	.00020	.26010	.01350	.05130	.08120	.09300
1.048	-5.020	-.50660	.27350	.00130	-.00220	-.00010	.26410	.01320	.05020	.07900	.08660
1.048	-2.690	-.36230	.22060	.00020	-.00110	.00020	.26520	.01300	.04940	.07500	.08470
1.048	-.400	-.22150	.16620	-.00050	-.00070	.00010	.27900	.01300	.04970	.07350	.08330
1.048	1.840	-.07240	.09640	.00020	-.00040	.00010	.26660	.01340	.05100	.07020	.08360
1.048	4.100	.08470	.11920	-.00090	-.00070	.00020	.25520	.01340	.05110	.07140	.08070
1.048	6.460	.25960	-.05400	-.00030	-.00160	.00070	.24750	.01260	.04810	.07120	.07660
1.048	-.390	-.22450	.16620	.00000	-.00050	.00020	.27650	.01330	.05050	.07460	.08470

RUN NO. 366/ 0 RN/L = 6.67

	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNB	CAB	CAB5	CABE
1	-7.390	-65930	.32910	.01040	-.00750	.00110	.29720	.01210	.04610	.07660	.08520
2	-5.020	-49490	.26710	.00990	-.00780	.00100	.29820	.01180	.04500	.07340	.08170
3	-2.700	-34810	.21120	.00800	-.00640	.00120	.29930	.01150	.04400	.06920	.07830
4	-.390	-19340	.14670	.00590	-.00590	.00100	.29110	.01170	.04470	.06830	.07770
5	1.890	-.03740	.07410	.00890	-.00650	.00120	.27910	.01200	.04570	.06530	.07850
6	4.160	1.1200	.00600	.00740	-.00610	.00130	.27220	.01200	.04590	.06510	.07630
7	6.510	.27040	-.05540	.00600	-.00630	.00160	.26510	.01160	.04430	.06510	.07330
8	-.390	-.19480	.14700	.00720	-.00580	.00100	.29030	.01150	.04520	.06960	.07820

RUN NO. 367/ 0 RN/L = 6.71

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.252	-7.530	-62140	.27940	-.00170	-.00330	.00050	.29560	.01190	.04530	.06830	.08130
1.252	-5.090	-42860	.19990	-.00470	-.00060	.00030	.29410	.01170	.04450	.06550	.07870
1.252	-2.720	-25750	.13180	-.00740	.00160	-.00020	.29560	.01150	.04400	.06130	.07650
1.252	-.350	-10040	.07280	-.00730	.00180	-.00040	.29340	.01160	.04420	.05960	.07660
1.252	1.950	.03520	.01990	-.00350	-.00110	-.00030	.28610	.01210	.04620	.05980	.07750
1.252	4.250	.17440	-.03680	-.00190	.00070	-.00070	.28110	.01220	.04650	.06710	.07710
1.252	6.600	.32460	-.09620	-.00290	.00040	-.00040	.27270	.01220	.04650	.06440	.07430
1.252	-.340	-.09500	.07000	-.00850	.00330	-.00050	.29410	.01140	.04340	.05900	.07540

**ORIGINAL PAGE IS
OF POOR QUALITY**

IA71 TABULATED SOURCE DATA

(RIK026) (16 APR 75)

MSFC TWT610 (IA-1) 74-OTS Z13

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 355/ 0 RN/L = 6.53

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CMSO	CABO	CABS	CABE
1.461	-7.560	-58810	.24800	-.00820	.00110	.00050	.31120	.00930	.03540	.05170	.06350
1.461	-5.130	-40460	.17440	-.00350	-.00110	.00010	.31020	.00910	.03460	.04770	.06190
1.461	-2.760	-24070	.11060	-.00650	.00000	.00000	.30760	.00920	.03520	.04800	.06210
1.461	-.390	-.08710	.05410	-.00780	.00130	-.00010	.30380	.00940	.03560	.04750	.06260
1.461	1.960	.05930	.00110	-.00830	.00200	-.00030	.29900	.00960	.03650	.04740	.06230
1.461	4.270	.18910	-.04940	-.01010	.00210	-.00090	.29790	.00930	.03550	.04760	.06000
1.461	6.610	.32860	-.10130	-.01100	.00270	-.00100	.29180	.00940	.03590	.04940	.05910
1.461	-.360	-.08660	.05590	-.00760	.00050	-.00030	.30190	.00930	.03560	.04670	.06130

RUN NO. 359/ 0 RN/L = 7.04

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CMSO	CABO	CABS	CABE
1.957	-7.610	-54250	.22100	-.00470	.00030	.00000	.30530	.00680	.02610	.03630	.04430
1.957	-5.180	-38430	.16240	-.00500	.00050	-.00050	.30100	.00660	.02530	.03290	.04450
1.957	-2.810	-24210	.11070	-.00540	.00120	-.00050	.29550	.00670	.02550	.03360	.04380
1.957	-.450	-10680	.06290	-.00630	.00270	-.00070	.29240	.00670	.02560	.03340	.04190
1.957	1.890	.02900	.01180	-.00700	.00310	-.00080	.28340	.00710	.02710	.03540	.04140
1.957	4.230	.16550	-.04550	-.00820	.00380	-.00100	.27920	.00690	.02650	.03530	.03990
1.957	6.550	.30600	-.10410	-.00980	.00480	-.00130	.27280	.00680	.02610	.03440	.03900
1.957	-.420	-.09690	.05990	-.00680	.00300	-.00080	.27990	.00660	.02500	.03310	.04090

MSFC TWT610 (IA-71) 74-OTS Z13

(RIK027) (18 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 380/ 0 RN/L = 6.28

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CMSO	CABO	CABS	CABE
.902	-6.600	-15280	.08290	.30760	-.14100	.04780	.14830	.01170	.04460	.06940	.08110
.902	-4.450	-16380	.08890	.21320	-.10070	.03300	.15300	.01140	.04330	.06630	.07820
.902	-2.290	-17360	.09460	.12070	-.05970	.01810	.15440	.01110	.04230	.06350	.07580
.902	-.160	-18120	.09950	.02660	-.01730	.00490	.15070	.01100	.04190	.06050	.07650
.902	1.960	-17220	.09500	-.06780	.02910	-.00840	.16210	.01040	.03980	.05620	.07300
.902	4.090	-16770	.08210	-.15220	.06550	-.02090	.16220	.01060	.04050	.05510	.07350
.902	6.240	-15670	.06450	-.23890	.10420	-.03540	.16540	.01080	.04120	.05440	.07410
.902	-.150	-17920	.09880	.02500	-.01440	.00450	.15010	.01080	.04130	.05950	.07570



IA71 TABULATED SOURCE DATA

PAGE 51

MSFC TMT610 (1A-71) 7A-OTS Z13

(RIK027) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 379/ 0 RN/L = 6.57

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.048	-6.670	-1.3490	.09190	.31370	-.14250	.05180	.25000	.01310	.04990	.08060	.08610
1.048	-4.480	-.14510	.10360	.21520	-.10270	.03620	.25630	.01290	.04910	.08090	.08260
1.048	-2.300	-.15630	.11480	.12260	-.06240	.02050	.25660	.01280	.04880	.08060	.08400
1.048	-.150	-.16530	.12230	.02350	-.01510	.00430	.25770	.01280	.04880	.07830	.08340
1.048	1.990	-.15820	.11570	-.07740	.03450	-.01110	.26490	.01260	.04790	.07520	.08060
1.048	4.140	-.14940	.10800	-.16770	.07530	-.02620	.27160	.01230	.04690	.07070	.08010
1.048	6.300	-.14480	.10230	-.25940	.11510	-.04230	.26440	.01290	.04910	.06950	.08530
1.048	-.140	-.15590	.11490	.02230	-.01530	.00420	.26330	.01210	.04600	.07520	.07950

RUN NO. 381/ 0 RN/L = 6.68

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.247	-6.780	-.09070	.05300	.30410	-.12590	.05090	.28170	.01210	.04600	.06630	.08220
1.247	-4.530	-.09330	.05980	.19570	-.08140	.03360	.28080	.01220	.04640	.06560	.08020
1.247	-2.330	-.09490	.06210	.10120	-.04430	.01720	.28100	.01180	.04510	.06650	.07950
1.247	-.150	-.09890	.06520	.00970	-.00480	.00200	.27840	.01190	.04530	.06700	.07830
1.247	2.020	-.09390	.06320	-.07800	.03170	-.01220	.28430	.01190	.04520	.06640	.07690
1.247	4.200	-.09650	.06320	-.16820	.06900	-.02740	.28790	.01240	.04710	.06470	.07930
1.247	6.430	-.09330	.05980	-.26800	.10970	-.04390	.29090	.01270	.04840	.06400	.08250
1.247	-.150	-.09970	.06590	.00820	-.00390	.00220	.27830	.01190	.04530	.06700	.07860

RUN NO. 358/ 0 RN/L = 7.01

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.963	-6.780	-.08300	.03910	.30100	-.13260	.04230	.27140	.00780	.02960	.03900	.04370
1.963	-4.540	-.08480	.04230	.19840	-.08840	.02830	.27440	.00750	.02850	.03750	.04230
1.963	-2.340	-.09090	.04940	.10140	-.04530	.01430	.27360	.00710	.02720	.03720	.04240
1.963	-.140	-.09700	.05420	.01020	-.00650	.00150	.27590	.00590	.02630	.03750	.04220
1.963	2.040	-.09430	.05210	-.07730	.03010	-.01060	.27880	.00710	.02700	.03700	.04360
1.963	4.240	-.08720	.04530	-.17580	.07480	-.02460	.28960	.00720	.02750	.03530	.04340
1.963	6.470	-.08790	.04340	-.27440	.11670	-.03850	.28440	.00750	.02880	.03270	.04330
1.963	-.130	-.09740	.05500	.00510	-.00430	.00120	.27070	.00680	.02590	.03660	.04100

PARAMETRIC DATA

ALPHA = .000 OASINC = .000
FLIPDR = 40.000

NAME	BE TA	CN	CLM	CY	CYN	CBL	CAF	CMBD	CASD	CABS	CABE
902	-8.590	-1.9990	.11900	.30090	-1.3610	.04490	.15990	.01190	.04540	.06960	.08140
902	-4.430	-2.0760	.12660	.21240	-.09890	.03160	.16070	.01170	.04450	.06740	.08050
902	-2.290	-2.2180	.13620	.11930	-.05750	.01700	.16690	.01100	.04190	.06440	.07680
902	-1.160	-2.3650	.14420	.02630	-.01950	.00410	.16210	.01100	.04210	.06190	.07860
902	1.990	-.22910	.13980	-.07190	.03220	-.00870	.17370	.01080	.04120	.05680	.0770
902	4.090	-.21470	.13300	-.15320	.06700	-.01950	.17740	.01090	.04150	.05660	.07610
902	6.240	-.20750	.12670	-.24100	.10500	-.03440	.17530	.01140	.04350	.05500	.07790
902	-1.160	-.22480	.13990	.02670	-.01590	.00440	.16730	.01080	.04120	.06320	.07780

PARAM	BETA	CN	CLM	CY	CYN	CBL	CAF	CNGO	CAGO	CAGS	CABE
1.048	-6.680	-1.7420	.12200	.30800	-.13750	.05020	.26780	.01290	.04900	.08130	.09610
1.048	-4.490	-.18620	.13620	.21070	-.09850	.03430	.27220	.01280	.04890	.08190	.09440
1.048	-2.300	-.20170	.15110	.11860	-.05940	.01920	.27360	.01280	.04860	.08130	.08570
1.048	-.150	-.21000	.15960	.02070	-.01320	.00350	.27430	.01280	.04880	.07960	.08400
1.048	1.980	-.20190	.15100	-.07740	.03540	-.01090	.28530	.01220	.04640	.07320	.07910
1.048	4.130	-.19950	.14680	-.16840	.07650	-.02590	.28570	.01240	.04730	.08120	.08120
1.048	6.300	-.18660	.13980	-.25780	.11400	-.04100	.28450	.01250	.04760	.06870	.08360
1.048	-.150	-.20850	.15950	.02060	-.01340	.00380	.27660	.01250	.04770	.07840	.08220

MACH	BETA	CN	CLM	CV	CYN	CBL	CAF	CNBO	CASO	CABS	CABE
1.253	-6.780	-1.0590	.06690	.30890	-.13010	.05160	.26840	.01230	.04690	.06690	.06260
1.253	-4.550	-1.0600	.07070	.20010	-.06560	.03430	.26800	.01200	.04580	.06760	.08070
1.253	-2.330	-1.0770	.07370	.10400	-.04630	.01760	.26720	.01180	.04480	.06770	.07840
1.253	-1.150	-1.1300	.07720	.00990	-.00530	.00200	.28480	.01170	.04470	.06810	.07730
1.253	2.020	-1.1320	.07840	-.07880	.03200	-.01250	.29140	.01190	.04530	.06750	.07560
1.253	4.210	-1.1180	.07600	-.16920	.06870	-.02830	.29670	.01220	.04650	.06340	.07530
1.253	6.410	-1.1630	.07670	-.26870	.10990	-.04470	.29630	.01260	.04790	.06280	.07910
1.253	-1.140	-1.1500	.07730	.00840	-.00530	.00200	.28940	.01150	.04360	.06720	.07540

1A71 TABULATED SOURCE DATA

(RIK028) (16 APR 75)

MSFC TMT610 (1A-71) 74-OTS Z13

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 380/ 0 RN/L = 7.03

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CNO	CBO	CBS	CABE
1.963	-6.760	-0.9510	.04980	.30940	-.13800	.04270	.27790	.00750	.02880	.03860	.04370
1.963	-4.940	-0.9610	.05260	.20020	-.09030	.02850	.28230	.00730	.02790	.03690	.04150
1.963	-2.340	-1.02700	.05940	.10180	-.04590	.01430	.28060	.00710	.02690	.03650	.04200
1.963	-1.150	-1.0570	.06380	.01110	-.00630	.00180	.28330	.00680	.02610	.03720	.04150
1.963	2.040	-1.10360	.06170	-.07990	.03180	-.01080	.28380	.00700	.02660	.03710	.04340
1.963	4.230	-0.9620	.05520	-.17800	.07730	-.02490	.29110	.00690	.02640	.03380	.04210
1.963	6.470	-0.9760	.05380	-.27740	.11970	-.03860	.28470	.00750	.02860	.03240	.04350
1.963	-1.140	-1.0950	.06570	.00670	-.00490	.00130	.27920	.00680	.02590	.03670	.04150

MSFC TMT610 (1A-71) 74-OTS Z12

(RIK029) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 383/ 0 RN/L = 6.24

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CNO	CBO	CBS	CABE
1.902	-7.260	-0.59360	.25660	-.01090	.00350	.00070	.19320	.01090	.04150	.06190	.07520
1.902	-4.980	-0.43020	.18890	-.01080	.00350	.00030	.19570	.01050	.04010	.05900	.07540
1.902	-2.740	-0.30050	.14110	-.00880	.00160	.00040	.19820	.01000	.03800	.05760	.07180
1.902	-1.810	-0.16710	.08860	-.01130	.00200	.00000	.19310	.00990	.03780	.05750	.07200
1.902	1.710	-0.34800	.03560	-.00800	.00050	-.00080	.14830	.00990	.03780	.05820	.07310
1.902	3.890	-0.4420	.02200	-.00840	-.00010	-.00110	.14340	.00950	.03610	.05780	.07080
1.902	6.260	-0.2990	-.06410	-.00800	-.00100	.00000	.14250	.00990	.03770	.06290	.07330
1.902	-4.90	-0.16760	.08580	-.01080	.00150	.00000	.14990	.01010	.03850	.05820	.07310

RUN NO. 384/ 0 RN/L = 6.47

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CNO	CBO	CBS	CABE
1.996	-7.310	-0.63330	.30400	.00680	-.00650	.00150	.23100	.01510	.05730	.08640	.09980
1.996	-4.980	-0.47350	.24250	.00690	-.00680	.00100	.23290	.01500	.05710	.08380	.09780
1.996	-2.690	-0.32620	.18720	.00710	-.00650	.00140	.23180	.01480	.05620	.08170	.09530
1.996	-1.10	-0.18610	.13040	.00680	-.00650	.00150	.23290	.01510	.05740	.08010	.09270
1.996	1.820	-0.4170	.06350	.00640	-.00590	.00160	.22570	.01510	.05730	.07800	.09420
1.996	4.080	-0.10310	-.00330	.00410	-.00470	.00130	.23090	.01530	.05810	.07810	.08990
1.996	6.380	-0.26790	-.07430	.00390	-.00460	.00170	.21970	.01460	.05550	.08030	.08860
1.996	-4.00	-0.18700	.11300	.00590	-.00610	.00140	.22640	.01510	.05750	.08000	.09430

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IA71 TABULATED SOURCE DATA

(RIK029) (16 APR 75)

MSFC TWT610 (IA-71) 74-OTS Z12

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 385/ 0 RN/L = 6.57

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.050	-7.300	-6.3640	.30140	.00760	-.00640	.00110	.25840	.01410	.05360	.08360	.09170
1.050	-5.010	-4.6980	.23770	.00670	-.00590	.00100	.25990	.01380	.05270	.07990	.08770
1.050	-2.700	-3.1940	.18040	.00560	-.00510	.00110	.26290	.01350	.05130	.07600	.08350
1.050	-4.00	-1.6990	.12140	.00550	-.00530	.00140	.25990	.01350	.05120	.07480	.08150
1.050	1.050	-.02390	.05560	.00550	-.00590	.00190	.25400	.01360	.05170	.07200	.08170
1.050	4.110	.12550	-.01480	.00620	-.00530	.00140	.25610	.01340	.05090	.07050	.07690
1.050	6.450	.27740	-.07240	.00570	-.00560	.00180	.24570	.01360	.05170	.07300	.07550
1.050	-4.00	-1.6970	.12090	.00550	-.00550	.00110	.26010	.01340	.05090	.07470	.08110

RUN NO. 382/ 0 RN/L = 6.67

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.251	-7.530	-6.0600	.26460	-.00320	-.00280	.00070	.28430	.01190	.04540	.07010	.08100
1.251	-5.100	-4.1790	.18930	-.00640	.00000	.00010	.28320	.01230	.04700	.06800	.07950
1.251	-2.710	-2.4830	.12370	-.00640	.00120	-.00010	.28970	.01230	.04670	.06300	.07720
1.251	-.350	-.09160	.06470	-.00690	.00120	-.00010	.28930	.01220	.04650	.06200	.07760
1.251	1.950	.04680	.01070	-.00310	-.00210	-.00040	.28520	.01250	.04740	.06190	.07760
1.251	4.240	.18580	-.04770	-.00200	-.00260	.00000	.28180	.01240	.04720	.06340	.07410
1.251	6.610	.33380	-.10380	-.00250	-.00300	.00000	.27420	.01280	.04890	.06590	.07340
1.251	-.350	-.08260	.05840	-.00320	.00380	-.00030	.29210	.01170	.04460	.05960	.07420

MSFC TWT610 (IA-71) 74-OTS Z14

(RIK030) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 388/ 0 RN/L = 6.29

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.904	-7.200	-6.0260	.26290	-.01150	.00500	-.00020	.15270	.01070	.04160	.06110	.07920
.904	-4.980	-4.6620	.20340	-.00790	.00250	-.00050	.15710	.01070	.04060	.05880	.07540
.904	-2.750	-3.3050	.14500	-.00630	.00110	-.00060	.15820	.01020	.03880	.05910	.07290
.904	-.510	-.17060	.08960	-.00540	-.00030	-.00060	.15770	.01000	.03800	.05830	.07170
.904	1.730	-.03900	.03780	-.00520	-.00080	-.00070	.15240	.00980	.03750	.05820	.07300
.904	3.950	.10260	-.02100	-.00490	-.00240	-.00080	.14770	.00980	.03730	.05920	.07250
.904	6.260	.24430	-.06710	-.00250	-.00420	-.00090	.14200	.00970	.03700	.06200	.07180
.904	-.500	-.17220	.09000	-.00710	.00060	-.00060	.15800	.00990	.03760	.05750	.07140

(RIK030) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

TABLE 7. TABULATED SOURCE DATA

MSFC 747610 (1A-71) 74-OTS 214

RUN NO. 387/ 0 RN/L = 6.50

ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
0.002	-0.3230	0.30450	0.00570	-0.00480	0.00080	0.23430	0.01400	0.05320	0.08450	0.09670
0.002	-0.980	0.24370	0.00580	-0.00510	0.00070	0.23660	0.01380	0.05240	0.08180	0.09350
0.002	-2.690	0.18920	0.00480	-0.00460	0.00080	0.23580	0.01350	0.05140	0.07930	0.09040
0.002	-0.420	0.13410	0.00630	-0.00550	0.00130	0.22930	0.01400	0.05320	0.07820	0.09080
0.002	-0.0660	0.06760	0.00720	-0.00640	0.00120	0.23360	0.01380	0.05260	0.07510	0.08850
0.002	0.070	-0.0830	0.00650	-0.00620	0.00100	0.22260	0.01380	0.05250	0.07610	0.08840
0.002	6.380	-0.06800	0.00670	-0.00680	0.00100	0.22280	0.01360	0.05200	0.07770	0.08410
0.002	-0.390	0.13040	0.00740	-0.00600	0.00130	0.23170	0.01330	0.05060	0.07580	0.08740

RUN NO. 386 / 0 RN/L = 6.57

MACM	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.1.0+8	-7.360	-6.3130	.30140	.00400	-.00340	.00080	.25680	.01320	.05020	.08270	.09080
1.1.0+8	-5.010	-4.7090	.24070	.00360	-.00290	.00100	.26030	.01290	.04900	.07890	.08670
1.1.0+8	-2.700	-.32430	.19570	.00420	-.00330	.00080	.26160	.01270	.04820	.07650	.08310
1.1.0+8	-.400	-.117690	.12800	.00380	-.00370	.00120	.25890	.01260	.04810	.07500	.08080
1.1.0+8	1.640	-.03410	.06270	.00530	-.00470	.00140	.25300	.01290	.04900	.07160	.08050
1.1.0+8	4.130	.12270	-.01220	.00660	-.00570	.00120	.25460	.01260	.04800	.06940	.07570
1.1.0+8	6.450	.26990	-.06550	.00700	-.00620	.00140	.24520	.01290	.04900	.07150	.07420
1.1.0+8	-.380	-.117490	.12680	.00320	-.00370	.00120	.25790	.01270	.04950	.07520	.08110

RUN NO. 389/ 0 RUN/L = 6.68

MACM	ALPHA	CN	CLIM	CY	CYN	CBL	CAF	CNBO	CABO	CAPS	CABE
1.29	-7.530	-6.0220	.26130	-.00190	-.00240	.00060	.27940	.01160	.04420	.07110	.08120
2.29	-5.110	-4.1090	.18430	-.00560	.00010	.00050	.28100	.01170	.04470	.06880	.07880
3.29	-2.740	-2.4320	.11850	-.00570	.00090	.00050	.28420	.01170	.04440	.06450	.07670
4.29	-.360	-.09100	.06280	-.00540	-.00010	.00000	.28170	.01190	.04530	.06410	.07870
5.29	1.950	.04950	.00770	-.00190	-.00240	.00020	.27640	.01220	.04650	.06350	.07890
6.29	4.270	.18770	-.05010	-.00150	-.00310	.00010	.27280	.01200	.04590	.06500	.07600
7.29	6.570	.33390	-.10590	-.00260	-.00200	-.00050	.26570	.01240	.04710	.06690	.07490
8.29	-.350	-.08200	.06560	-.00740	.00150	.00010	.26350	.01150	.04370	.06160	.07580

IA71 TABULATED SOURCE DATA

(RIK031) (16 APR 75)

MSFC TW1610 (IA-71) 77-0.7N-TS Z13

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 93/ 0 RN/L = 5.92

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABFS	CABE
.797	-6.970	-5.3640	.22330	-.00840	.00000	.00400	.13300	.00820	.03140	.05410	.07620
.797	-4.770	-4.0840	.16710	-.00150	-.00190	.00370	.14070	.00760	.02900	.05240	.07070
.797	-2.550	-2.7630	.12040	-.00520	-.00090	.00330	.14140	.00740	.02840	.05260	.06820
.797	-.350	-1.4830	.06970	-.00580	-.00130	.00300	.14140	.00740	.02810	.05290	.06710
.797	1.870	-.01120	.02400	-.00560	-.00180	.00290	.13820	.00720	.02740	.05180	.06630
.797	4.100	.12050	-.01880	-.00340	-.00350	.00320	.13230	.00710	.02730	.05260	.06620
.797	6.350	.27080	-.08010	-.00710	-.00180	.00320	.12820	.00650	.02490	.05150	.06200
.797	-.350	-.14830	.06960	-.00230	-.00270	.00290	.14360	.00740	.02820	.05300	.06650

RUN NO. 92/ 0 RN/L = 6.25

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABFS	CABE
.903	-7.130	-.56790	.23780	-.01070	.00370	.00260	.15880	.00990	.03760	.06130	.07900
.903	-4.820	-.41330	.18280	-.00920	.00230	.00240	.16550	.00950	.03630	.05810	.07480
.903	-2.590	-.27550	.12260	-.01020	.00290	.00120	.16880	.00890	.03410	.05670	.07080
.903	-.360	-.12950	.05740	-.00880	.00170	.00100	.16820	.00840	.03200	.05570	.06900
.903	1.870	.02050	-.00940	-.00850	.00150	.00010	.16060	.00840	.03190	.05600	.06940
.903	4.120	.16620	-.06940	-.01040	.00210	-.00060	.15500	.00820	.03120	.05630	.06870
.903	6.430	.30680	-.11240	-.01070	.00140	-.00080	.14850	.00800	.03040	.05650	.06780
.903	-.360	-.13040	.05820	-.00770	.00090	.00120	.17030	.00830	.03180	.05610	.06890

RUN NO. 91/ 0 RN/L = 6.40

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABFS	CABE
.952	-7.170	-.95540	.22850	-.00950	.00280	.00240	.18150	.01050	.03950	.06780	.08050
.952	-4.840	-.40260	.17500	-.00990	.00190	.00190	.18610	.01020	.03910	.06480	.07900
.952	-2.560	-.26440	.12560	-.00780	.00080	.00150	.19090	.00990	.03780	.06220	.07610
.952	-.320	-.11990	.06110	-.00760	.00000	.00160	.19000	.00990	.03770	.06170	.07520
.952	1.920	.02880	-.00370	-.00840	.00070	.00050	.18370	.00980	.03720	.06000	.07420
.952	4.150	.17090	-.06930	-.00950	.00180	-.00040	.17550	.00970	.03700	.06070	.07420
.952	6.520	.31770	-.11190	-.00890	.00000	-.00050	.17660	.00990	.03790	.06420	.07540
.952	-.330	-.12270	.06200	-.00530	-.00080	.00150	.18660	.00990	.03780	.06200	.07520

IA71 TABULATED SOURCE DATA

(IRIK031) (16 APR 75)

WSPC TWT810 (1A-71) 77-0.74-TS 213

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 90/ 0 RN/L = 6.50

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.998	-7.180	-1.59830	.26760	.00440	-.00250	.00280	.23390	.01260	.04820	.08400	.09350
.998	-4.830	-1.42800	.20580	.00510	-.00330	.00260	.23740	.01270	.04830	.08210	.09240
.998	-2.540	-1.28240	.14980	.00580	-.00360	.00230	.24070	.01220	.04660	.07980	.08960
.998	-.280	-1.13520	.08370	.00670	-.00450	.00250	.23840	.01220	.04650	.07980	.08940
.998	1.980	.01390	.02010	.00720	-.00520	.00240	.23850	.01230	.04690	.07800	.08760
.998	4.210	.16150	-.05160	.00540	-.00440	.00170	.22560	.01250	.04770	.07960	.08720
.998	6.550	.31200	-.10640	.00530	-.00440	.00160	.22140	.01260	.04820	.08020	.08520
.998	-.280	-1.13250	.08180	.00780	-.00520	.00240	.23990	.01170	.04470	.07750	.08580

RUN NO. 95/ 0 RN/L = 6.57

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.048	-7.230	-.59370	.26620	.00450	-.00120	.00260	.26000	.01200	.04570	.08140	.08720
1.048	-4.880	-.42870	.20250	.00470	-.00150	.00210	.26730	.01130	.04320	.07650	.08210
1.048	-2.570	-.27760	.14390	.00380	-.00130	.00210	.27020	.01120	.04250	.07480	.08000
1.048	-.280	-.12800	.08010	.00600	-.00260	.00240	.26680	.01120	.04270	.07420	.07910
1.048	1.990	.02140	.01530	.00750	-.00500	.00220	.26150	.01120	.04260	.07200	.07800
1.048	4.250	.16550	-.04990	.01010	-.00680	.00170	.24990	.01180	.04480	.07480	.07860
1.048	6.600	.32270	-.10770	.00830	-.00670	.00200	.24500	.01150	.04390	.07370	.07500
1.048	-.280	-.12670	.08010	.00590	-.00270	.00230	.26970	.01110	.04210	.07360	.07800

RUN NO. 87/ 0 RN/L = 6.63

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.104	-7.230	-.56990	.25540	.00390	-.00010	.00260	.28830	.00930	.03560	.06770	.07270
1.104	-4.860	-.40730	.19380	.00600	-.00130	.00280	.29250	.00890	.03410	.06390	.06980
1.104	-2.550	-.25890	.13530	.00710	-.00280	.00280	.29340	.00880	.03360	.06120	.06810
1.104	-.280	-.11540	.07220	.00820	-.00460	.00270	.29370	.00840	.03210	.05950	.06510
1.104	2.010	.03480	.00930	.00920	-.00610	.00280	.28490	.00860	.03290	.05930	.06490
1.104	4.280	.17920	-.05690	.01050	-.00790	.00270	.27750	.00870	.03300	.06080	.06300
1.104	6.630	.33160	-.11300	.00900	-.00720	.00240	.26980	.00870	.03310	.06150	.06020
1.104	-.270	-.11140	.07080	.00720	-.00420	.00280	.29300	.00850	.03250	.06000	.06550

IA71 TABULATED SOURCE DATA

MSFC TWT810 (IA-71) 77-0.74-15 Z13

(RIK031) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 88/ 0 RN/L = 6.65

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.150	-7.280	-1.95840	.24420	.00840	-.00350	.00270	.28820	.00650	.03230	.08360	.06510
1.150	-4.880	-1.39870	.18870	.00720	-.00430	.00250	.29110	.00810	.03080	.08140	.06420
1.150	-2.550	-1.24820	.13010	.00900	-.00620	.00260	.29710	.00750	.02870	.05730	.06040
1.150	-.230	-1.10480	.07420	.00870	-.00660	.00280	.28980	.00780	.02980	.05680	.06230
1.150	2.040	-.03820	.01130	.01130	-.00910	.00280	.28520	.00780	.02990	.05530	.06100
1.150	4.300	.17660	-.05140	.01200	-.01070	.00270	.28300	.00760	.02890	.05360	.05680
1.150	6.660	.32360	-.10250	.01120	-.01050	.00250	.27460	.00780	.02970	.05520	.05620
1.150	-.240	-.10450	.07350	.01020	-.00720	.00270	.29190	.00760	.02920	.05780	.06130

RUN NO. 94/ 0 RN/L = 6.68

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.198	-7.400	-1.57390	.23060	-.00150	-.00400	.00290	.27700	.01180	.04490	.07440	.08070
1.198	-4.970	-.38370	.15380	-.00230	-.00270	.00280	.27650	.01180	.04480	.07200	.08050
1.198	-2.600	-.21600	.08770	-.00430	-.00110	.00210	.27900	.01150	.04390	.06830	.08010
1.198	-.240	-.06040	.03080	-.00430	-.00100	.00170	.28070	.01140	.04340	.06700	.08050
1.198	2.070	.08220	-.02360	-.00470	-.00070	.00170	.28010	.01110	.04240	.06430	.07920
1.198	4.390	.22500	-.08140	-.00060	-.00420	.00130	.27660	.01150	.04390	.06860	.07910
1.198	6.760	.37860	-.13660	-.00090	-.00490	.00130	.26840	.01190	.04530	.07120	.07870
1.198	-.230	-.05660	.03050	-.00380	-.00070	.00180	.28450	.01100	.04200	.06440	.07910

RUN NO. 95/ 0 RN/L = 6.67

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.247	-7.420	-1.56780	.22500	-.00120	-.00350	.00410	.27980	.01160	.04410	.06900	.07630
1.247	-4.980	-.38010	.15210	-.00180	-.00290	.00370	.28360	.01080	.04120	.06690	.07440
1.247	-2.600	-.21590	.08960	-.00150	-.00190	.00310	.28680	.01060	.04050	.06400	.07380
1.247	-.230	-.06030	.03370	.00010	-.00300	.00270	.28770	.01060	.04040	.06250	.07350
1.247	2.070	.07770	-.01950	.00100	-.00520	.00200	.28370	.01070	.04080	.06290	.07370
1.247	4.390	.21770	-.07600	.00070	-.00620	.00140	.28060	.01100	.04190	.06620	.07390
1.247	6.750	.37050	-.13410	.00090	-.00620	.00120	.27540	.01110	.04230	.06820	.07100
1.247	-.220	-.05510	.03100	-.00070	-.00300	.00260	.28760	.01050	.04000	.06290	.07280

IA71 TABULATED SOURCE DATA

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MSFC TWT610 (IA-71) 77-0.74-TS Z13

(RIK031) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 98/ 0 RN/L = 6.50

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.456	-7.450	-56030	.21820	-.01290	.00270	.00280	.29590	.00930	.03560	.05230	.06180
1.456	-5.020	-38270	.14990	-.00620	-.00040	.00330	.29720	.00870	.03320	.04840	.06140
1.456	-2.640	-21890	.08790	-.00700	.00030	.00320	.29640	.00850	.03240	.04830	.06020
1.456	-.270	-.06820	.03300	-.00620	-.00050	.00300	.29510	.00850	.03230	.04870	.06020
1.456	2.070	.07820	-.02010	-.00570	-.00030	.00230	.29300	.00850	.03250	.04860	.05950
1.456	4.390	.21270	-.07290	-.00640	.00010	.00200	.28920	.00850	.03260	.05010	.05840
1.456	6.740	.35480	-.12520	-.00690	.00060	.00180	.28930	.00850	.03260	.05060	.05690
1.456	-.250	-.06650	.03320	-.00590	-.00110	.00290	.29530	.00820	.03150	.04880	.05890

RUN NO. 105/ 0 RN/L = 7.05

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.967	-7.430	-.51460	.20280	-.01200	.00400	.00190	.28130	.00680	.02590	.03600	.04610
1.967	-5.030	-.35950	.14550	-.00890	.00290	.00160	.27370	.00690	.02650	.03360	.04670
1.967	-2.650	-.22330	.09760	-.00990	.00390	.00160	.27190	.00690	.02690	.03360	.04530
1.967	-.310	-.09420	.05220	-.00920	.00350	.00160	.27020	.00720	.02760	.03470	.04370
1.967	2.040	.04070	.00350	-.00760	.00300	.00220	.26270	.00750	.02870	.03590	.04250
1.967	4.350	.17140	-.05070	-.00550	.00120	.00220	.26570	.00760	.02890	.03580	.04150
1.967	6.710	.31590	-.11140	-.00780	.00260	.00260	.27150	.00740	.02830	.03580	.04040
1.967	-.280	-.08510	.04990	-.00790	.00340	.00170	.26330	.00730	.02770	.03450	.04320

MSFC TWT610 (IA-71) 77-0.74-TS Z13

(RIK032) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 82/ 0 RN/L = 5.91

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.799	-6.980	-.57980	.25970	-.00790	.00130	.00240	.14830	.00890	.03380	.05420	.07940
.799	-4.770	-.45120	.20630	-.00350	-.00140	.00270	.15520	.00840	.03200	.05210	.07490
.799	-2.950	-.32100	.15980	-.00300	-.00210	.00260	.15560	.00810	.03090	.05270	.07200
.799	-.350	-.19500	.11140	-.00370	-.00240	.00260	.15420	.00810	.03070	.05400	.07010
.799	1.880	-.06800	.07050	-.00500	-.00250	.00250	.15030	.00790	.03010	.05310	.06930
.799	4.120	.06860	.02470	-.00890	-.00100	.00260	.14380	.00790	.03010	.05390	.06880
.799	6.330	.21270	-.03320	-.01140	-.00030	.00290	.13360	.00770	.02950	.05450	.06690
.799	-.360	-.20000	.11370	-.00370	-.00240	.00300	.15570	.00780	.02970	.05370	.06950

ORIGINAL PAGE IS
OF POOR QUALITY

1A71 TABULATED SOURCE DATA

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MSFC TMT810 (1A-71) 77-0,74-75 213

(RIK032) (10 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .008
FLIPOR = 40.000

RUN NO. 83/ 0 RN/L = 6.28

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.902	-7.110	-60060	.27000	-.01190	.00370	.00230	.16950	.01050	.04040	.06100	.08010
.902	-4.830	-45210	.21870	-.00990	.00180	.00170	.17440	.01050	.03980	.05870	.07700
.902	-2.610	-32210	.18320	-.01180	.00220	.00080	.17650	.00970	.03700	.05840	.07380
.902	-.370	-18780	.10710	-.01030	.00050	.00020	.17210	.00950	.03620	.05880	.07330
.902	1.860	-.04210	.04280	-.00990	.00080	.00030	.16520	.00920	.03520	.05740	.07180
.902	4.110	.11100	-.02090	-.01420	.00290	.00030	.15550	.00940	.03580	.05840	.07260
.902	6.400	.26890	-.08230	-.01500	.00380	.00030	.15200	.00920	.03510	.06020	.07040
.902	-.370	-.18720	.10650	-.01070	.00110	.00030	.17730	.00940	.03590	.05910	.07300

RUN NO. 84/ 0 RN/L = 6.49

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.001	-7.190	-.62540	.29310	-.00170	.00160	.00170	.24450	.01510	.05760	.09220	.10500
1.001	-4.860	-.46330	.23410	-.00180	.00160	.00150	.25010	.01480	.05640	.08980	.10180
1.001	-2.540	-.31890	.18250	-.00100	.00060	.00130	.25130	.01450	.05530	.08890	.09860
1.001	-.270	-.17320	.12030	.00090	-.00180	.00170	.24870	.01440	.05490	.08830	.09780
1.001	2.010	-.01540	.05400	.00050	-.00190	.00110	.23740	.01460	.05550	.08660	.09800
1.001	4.260	.13690	-.01800	-.00340	-.00230	.00090	.22360	.01470	.05590	.08640	.09620
1.001	6.610	.30060	-.08000	.00120	-.00390	.00080	.20780	.01440	.05490	.08740	.09430
1.001	-.270	-.17440	.12100	.00030	-.00170	.00150	.24910	.01440	.05490	.08870	.09800

RUN NO. 85/ 0 RN/L = 6.57

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.051	-7.210	-.61110	.28740	.00230	.00060	.00200	.28100	.01250	.04750	.08050	.08870
1.051	-4.860	-.45670	.23080	.00380	-.00020	.00180	.28690	.01180	.04480	.07670	.08500
1.051	-2.560	-.31330	.17850	.00410	-.00130	.00180	.28900	.01130	.04300	.07460	.08170
1.051	-.280	-.17020	.11870	.00660	-.00300	.00210	.28590	.01140	.04330	.07410	.08090
1.051	2.010	-.01230	.04930	.00490	-.00260	.00180	.27400	.01170	.04460	.07330	.08140
1.051	4.250	.13400	-.01990	.00600	-.00440	.00160	.26070	.01190	.04530	.07500	.08030
1.051	6.620	.30010	-.08390	.00710	-.00560	.00220	.24940	.01200	.04570	.07600	.07860
1.051	-.280	-.16920	.11790	.00560	-.00250	.00220	.28620	.01150	.04360	.07440	.08100

IA71 TABULATED SOURCE DATA

MSFC TWTB10 (IA-71) 77-0.74-TS Z13 (R1K032) (18 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 86/ 0		RN/L = 6.63															
MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE	MACH	ALPHA	CN	CLM	CY	CYN
1.106	-7.230	-59580	.27900	.00370	.00000	.00210	.30800	.00970	.03700	.06540	.07280	1.106	-7.230	-59580	.27900	.00370	.00000
1.106	-4.870	-43910	.22200	.00410	-.00040	.00210	.31160	.00890	.03380	.06240	.06970	1.106	-4.870	-43910	.22200	.00410	-.00040
1.106	-2.560	-29710	.16920	.00500	-.00140	.00220	.31270	.00850	.03240	.06000	.06700	1.106	-2.560	-29710	.16920	.00500	-.00140
1.106	-.280	-15370	.10650	.00660	-.00320	.00240	.30800	.00850	.03230	.05340	.06550	1.106	-.280	-15370	.10650	.00660	-.00320
1.106	2.010	.00220	.03850	.00690	-.00400	.00190	.29650	.00860	.03280	.05810	.06520	1.106	2.010	.00220	.03850	.00690	-.00400
1.106	4.280	.15070	-.03050	.00970	-.00720	.00230	.28920	.00830	.03180	.05910	.06220	1.106	4.280	.15070	-.03050	.00970	-.00720
1.106	6.630	.30810	-.09190	.01060	-.00750	.00220	.27900	.00840	.03210	.06070	.05980	1.106	6.630	.30810	-.09190	.01060	-.00750
1.106	-.280	-15590	.10760	.00670	-.00320	.00220	.30280	.00900	.03430	.06300	.06780	1.106	-.280	-15590	.10760	.00670	-.00320

RUN NO. 81/ 0		RN/L = 6.64															
MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE	MACH	ALPHA	CN	CLM	CY	CYN
1.250	-7.370	-58890	.24930	-.00670	.00010	.00330	.29360	.01190	.04550	.06910	.08010	1.250	-7.370	-58890	.24930	-.00670	.00010
1.250	-4.970	-40550	.17640	-.00610	.00040	.00320	.29360	.01140	.04360	.06660	.07860	1.250	-4.970	-40550	.17640	-.00610	.00040
1.250	-2.590	-23900	.11230	-.00770	.00190	.00240	.29670	.01120	.04270	.06350	.07730	1.250	-2.590	-23900	.11230	-.00770	.00190
1.250	-.230	-08190	.05330	-.00580	.00040	.00180	.29530	.01140	.04330	.06220	.07690	1.250	-.230	-08190	.05330	-.00580	.00040
1.250	2.080	.05680	-.00010	-.00210	-.00260	.00160	.28910	.01160	.04400	.06310	.07750	1.250	2.080	.05680	-.00010	-.00260	.00160
1.250	4.390	.19980	-.05880	-.00120	-.00370	.00130	.28520	.01140	.04340	.06390	.07360	1.250	4.390	.19980	-.05880	-.00120	-.00370
1.250	6.750	.34970	-.11650	.00020	-.00510	.00110	.27930	.01180	.04490	.06670	.07290	1.250	6.750	.34970	-.11650	.00020	-.00510
1.250	-.210	-07110	.04700	-.00730	.00270	.00210	.29610	.01100	.04190	.06050	.07440	1.250	-.210	-07110	.04700	-.00730	.00270

RUN NO. 101/ 0		RN/L = 6.49															
MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE	MACH	ALPHA	CN	CLM	CY	CYN
1.465	-7.440	-57590	.23330	-.01360	.00350	.00250	.30450	.00950	.03640	.05230	.06330	1.465	-7.440	-57590	.23330	-.01360	.00350
1.465	-5.010	-39480	.16310	-.00740	.00000	.00320	.30550	.00890	.03400	.04820	.06250	1.465	-5.010	-39480	.16310	-.00740	.00000
1.465	-2.630	-23490	.10370	-.00740	.00000	.00300	.30380	.00890	.03380	.04840	.06250	1.465	-2.630	-23490	.10370	-.00740	.00000
1.465	-.260	-08140	.04700	-.00700	-.00060	.00270	.30230	.00900	.03430	.04840	.06230	1.465	-.260	-08140	.04700	-.00700	-.00060
1.465	2.090	.06800	-.00780	-.00750	.00000	.00230	.30000	.00920	.03490	.04870	.06220	1.465	2.090	.06800	-.00780	-.00750	.00000
1.465	4.390	.19900	-.05810	-.00650	.00110	.00190	.29930	.00880	.03370	.04890	.05980	1.465	4.390	.19900	-.05810	-.00650	.00110
1.465	6.750	.34090	-.11090	-.00640	-.00060	.00150	.29570	.00910	.03460	.05040	.05890	1.465	6.750	.34090	-.11090	-.00640	-.00060
1.465	-.230	-07860	.04820	-.00680	-.00110	.00270	.29680	.00900	.03430	.04850	.06170	1.465	-.230	-07860	.04820	-.00680	-.00110

IA71 TABULATED SOURCE DATA

(RIK032) (16 APR 75)

MSFC TWT610 (IA-71) 77-0.7N-TS 213

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 102/ 0 RN/L = 7.06

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.950	-7.450	-5.2750	.21150	-.01040	.00430	.00190	.28230	.00670	.02560	.03550	.04500
1.950	-5.040	-3.7220	.15520	-.00970	.00350	.00150	.28550	.00670	.02570	.03370	.04630
1.950	-2.850	-2.3430	.10700	-.00950	.00330	.00150	.28420	.00660	.02540	.03350	.04480
1.950	-.310	-1.0450	.06160	-.00970	.00350	.00180	.28340	.00700	.02670	.03490	.04340
1.950	2.030	.02840	.01340	-.00850	.00260	.00200	.27390	.00740	.02820	.03630	.04290
1.950	4.380	.17180	-.04630	-.00710	-.00040	.00260	.28900	.00740	.02810	.03650	.04160
1.950	6.760	.33160	-.11280	-.00760	.00070	.00300	.29900	.00740	.02830	.03630	.03940
1.950	-.250	-.10040	.06050	-.01010	.00400	.00170	.27830	.00700	.02690	.03490	.04350

(RIK033) (16 APR 75)

MSFC TWT610 (IA-71) 77-0.7N-TS 213

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 77/ 0 RN/L = 6.23

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.904	-6.630	-.12310	.05180	.24410	-.08010	.02360	.15400	.01050	.04020	.06820	.07960
1.904	-4.470	-.13020	.05820	.16840	-.05760	.01630	.15590	.01030	.03910	.06610	.07710
1.904	-2.310	-.13140	.06050	.09560	-.03580	.00970	.16030	.00950	.03620	.06350	.07240
1.904	-.160	-.13420	.06360	.01980	-.01050	.00250	.16020	.00940	.03570	.06120	.07090
1.904	1.970	-.13360	.06150	-.05270	.01520	-.00390	.16350	.00950	.03630	.05720	.07190
1.904	4.130	-.12900	.05820	-.11980	.03560	-.00980	.16750	.00980	.03720	.05430	.07210
1.904	6.280	-.12350	.05480	-.19200	.05910	-.01650	.17100	.01050	.04000	.05230	.07510
1.904	-.140	-.13930	.06600	.01960	-.01000	.00250	.16300	.00940	.03590	.06200	.07150

RUN NO. 76/ 0 RN/L = 6.53

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.052	-6.760	-.08670	.05470	.25650	-.08250	.02710	.25750	.01250	.04760	.08270	.08490
1.052	-4.530	-.10340	.06240	.17490	-.06050	.01850	.26110	.01220	.04640	.08230	.08130
1.052	-2.340	-.10360	.06680	.09930	-.03420	.01070	.26370	.01150	.04380	.08040	.07900
1.052	-.160	-.11470	.07450	.02140	-.01170	.00320	.26520	.01140	.04330	.07860	.07850
1.052	2.000	-.11120	.07400	-.05740	.01650	-.00460	.26880	.01140	.04350	.07590	.07940
1.052	4.160	-.11430	.07680	-.13070	.04130	-.01220	.26890	.01240	.04720	.07410	.08260
1.052	6.380	-.10240	.06550	-.20230	.06100	-.01960	.27560	.01220	.04660	.06800	.08180
1.052	-.160	-.12080	.07830	.02140	-.01210	.00310	.26090	.01180	.04510	.08090	.08160

IA71 TABULATED SOURCE DATA

(RIK033) (16 APR 75)

MSFC TWT610 (IA-71) 77-0.7N-TS Z13

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 75/ 0 RN/L = 6.65

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.251	-6.840	-.08020	.03550	.25810	-.07990	.02910	.28140	.01240	.04710	.07160	.08230
1.251	-4.570	-.07400	.03650	.16640	-.05200	.02010	.28310	.01180	.04430	.06930	.07820
1.251	-2.360	-.07320	.03770	.08860	-.03010	.01160	.28100	.01140	.04340	.06840	.07630
1.251	-.150	-.07700	.04140	.01090	-.00590	.00340	.28250	.01120	.04250	.06780	.07590
1.251	2.040	-.08050	.04540	-.06590	.01900	-.00460	.28310	.01160	.04410	.06850	.07680
1.251	4.270	-.08090	.04480	-.13870	.03970	-.01200	.29090	.01160	.04420	.06400	.07530
1.251	6.500	-.08700	.04570	-.22050	.06160	-.02030	.28820	.01240	.04730	.06280	.08240
1.251	-.140	-.07590	.04110	.00980	-.00610	.00320	.27970	.01120	.04270	.06770	.07530

RUN NO. 104/ 0 RN/L = 7.05

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.962	-6.860	-.09310	.04540	.25920	-.08900	.02370	.26890	.00800	.03040	.04060	.04470
1.962	-4.610	-.09290	.04710	.16470	-.05540	.01500	.26870	.00760	.02900	.03980	.04350
1.962	-2.360	-.09750	.05360	.08050	-.02720	.00810	.26760	.00740	.02830	.03930	.04400
1.962	-.140	-.09850	.05540	.00490	-.00290	.00300	.27250	.00710	.02700	.03840	.04390
1.962	2.080	-.09270	.05210	-.07300	.02050	-.00270	.26810	.00740	.02820	.03570	.04590
1.962	4.300	-.08740	.04810	-.15170	.04720	-.00930	.27910	.00750	.02880	.03510	.04460
1.962	6.560	-.08700	.04670	-.23960	.07680	-.01730	.28020	.00760	.02900	.03320	.04530
1.962	-.130	-.09860	.05550	.00130	-.00190	.00250	.26590	.00710	.02710	.03820	.04400

MSFC TWT610 (IA-71) 77-0.7N-TS Z13

(RIK034) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 78/ 0 RN/L = 6.25

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.907	-6.640	-.15950	.08790	.24330	-.07810	.02300	.16580	.01130	.04250	.07000	.08400
.907	-4.470	-.17150	.09740	.16580	-.05550	.01610	.17210	.01040	.03970	.06670	.07940
.907	-2.310	-.17520	.10140	.09440	-.03460	.00920	.17480	.00950	.03630	.06550	.07600
.907	-.160	-.18590	.10840	.01810	-.00950	.00260	.17320	.00930	.03550	.06310	.07390
.907	1.970	-.17970	.10420	-.05160	.01400	-.00330	.18070	.00940	.03570	.05960	.07460
.907	4.140	-.18040	.10390	-.12170	.03560	-.00890	.18340	.00970	.03690	.05710	.07570
.907	6.290	-.17430	.10020	-.19370	.05870	-.01500	.18660	.01040	.03970	.05410	.07770
.907	-.160	-.18940	.11050	.02020	-.01050	.00280	.17820	.00930	.03550	.06410	.07500

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OF POOR QUALITY

1A71 TABULATED SOURCE DATA

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MSFC THT810 (1A-71) 77-0,74-TS Z13

(RIK034) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 79/ 0 RN/L = 6.52

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CNO	CBO	CBS	CABE
1.048	-6.780	-1.4230	.08380	.25180	-.07840	.02560	.26830	.01310	.05000	.08450	.06980
1.049	-4.520	-1.14720	.10120	.17090	-.05810	.01810	.27300	.01240	.04720	.08330	.08430
1.049	-2.330	-1.13120	.10680	.09710	-.03670	.01120	.27580	.01190	.04540	.08200	.08220
1.049	-1.160	-1.16000	.11280	.02020	-.01120	.00370	.27640	.01180	.04490	.07980	.08160
1.049	2.000	-1.15740	.11280	-.05690	.01620	-.00360	.27950	.01210	.04600	.07790	.08330
1.049	4.190	-1.15210	.10840	-.112930	.03950	-.01080	.26930	.01180	.04500	.07190	.08020
1.049	6.370	-1.15160	.10700	-.20050	.05960	-.01790	.26510	.01280	.04880	.07010	.08600
1.049	-1.160	-1.15730	.11080	.02070	-.01150	.00380	.27850	.01160	.04420	.07900	.08070

RUN NO. 80/ 0 RN/L = 6.64

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CNO	CBO	CBS	CABE
1.252	-6.840	-.09430	.05040	.26070	-.08180	.02840	.28850	.01270	.04830	.07310	.08300
1.252	-4.580	-.08980	.05080	.16890	-.05360	.01960	.28930	.01180	.04510	.07050	.07880
1.252	-2.350	-.08890	.05260	.08840	-.03000	.01080	.28810	.01150	.04380	.06940	.07660
1.252	-1.150	-.09070	.05490	.01060	-.00600	.00320	.28800	.01150	.04380	.06870	.07610
1.252	2.060	-.09390	.05860	-.06380	.01680	-.00470	.29040	.01160	.04400	.06860	.07630
1.252	4.270	-.09580	.05920	-.13940	.03950	-.01160	.29750	.01190	.04530	.06510	.07760
1.252	6.490	-1.0000	.06010	-.21960	.06190	-.01960	.29650	.01270	.04820	.06400	.08240
1.252	-1.150	-.08980	.05500	.01010	-.00580	.00310	.28820	.01150	.04390	.06870	.07620

RUN NO. 103/ 0 RN/L = 7.06

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CNO	CBO	CBS	CABE
1.956	-6.860	-1.0260	.05470	.26210	-.09090	.02350	.27600	.00790	.03010	.04110	.04500
1.956	-4.610	-1.0050	.05610	.16720	-.05660	.01510	.27810	.00750	.02850	.04010	.04350
1.956	-2.360	-1.0670	.06250	.08290	-.02830	.00810	.27780	.00720	.02770	.03940	.04360
1.956	-1.140	-1.0850	.06460	.00690	-.00420	.00270	.28370	.00690	.02630	.03870	.04360
1.956	2.080	-1.0190	.06170	-.07220	.02040	-.00280	.27680	.00720	.02740	.03680	.04550
1.956	4.290	-.09580	.05720	-.15100	.04760	-.00940	.28580	.00740	.02840	.03520	.04440
1.956	6.570	-.09590	.05480	-.24110	.07730	-.01740	.29100	.00750	.02860	.03320	.04530
1.956	-1.140	-1.0760	.06440	.00650	-.00410	.00270	.28240	.00690	.02650	.03870	.04370

MSFC TWT810 (1A-71) 77-0.74-TSSTANDOFF FUEL LINE (RIK035) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 109/ 0 RN/L = 6.27

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
.900	-6.650	-.06450	.00060	.25220	-.08660	.02310	.14260	.01130	.04290	.07020	.07980
.900	-4.470	-.06060	-.00140	.17650	-.06370	.01690	.14870	.01050	.04020	.06670	.07530
.900	-2.310	-.06720	.00120	.10000	-.03810	.00980	.14900	.01000	.03830	.06430	.07230
.900	-.160	-.06950	.00430	.02050	-.00960	.00310	.15080	.01020	.03880	.06110	.07170
.900	1.960	-.05840	-.00190	-.05510	.01850	-.00290	.15560	.01000	.03830	.05590	.07110
.900	4.110	-.05910	-.00260	-.12460	.04080	-.00910	.15610	.01050	.04020	.05430	.07280
.900	6.280	-.04440	-.01000	-.19920	.06570	-.01570	.16520	.01110	.04230	.05030	.07400
.900	-.160	-.06350	.00200	.01970	-.00920	.00300	.15440	.00930	.03550	.05710	.06690

RUN NO. 110/ 0 RN/L = 6.58

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.047	-6.740	-.07300	.03210	.26450	-.09230	.02990	.24510	.01340	.05120	.08500	.08790
1.047	-4.510	-.07740	.03920	.18340	-.06870	.02100	.25070	.01290	.04890	.08330	.08280
1.047	-2.330	-.07730	.04260	.10490	-.04390	.01280	.25070	.01220	.04640	.08190	.08050
1.047	-.160	-.08820	.04970	.02320	-.01340	.00390	.25090	.01210	.04630	.07980	.08050
1.047	1.990	-.08570	.04880	-.05720	.01770	-.00470	.25290	.01240	.04720	.07640	.08130
1.047	4.160	-.07850	.04530	-.13080	.04310	-.01240	.26120	.01270	.04840	.07220	.08080
1.047	6.360	-.07410	.04080	-.20700	.06620	-.02060	.25880	.01360	.05170	.07040	.08550
1.047	-.160	-.08470	.04660	.02470	-.01430	.00420	.25590	.01160	.04440	.07750	.07720

RUN NO. 111/ 0 RN/L = 6.70

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.248	-6.830	-.06930	.02450	.26030	-.08330	.03090	.27580	.01340	.05100	.07370	.08570
1.248	-4.570	-.06640	.02740	.17030	-.05620	.02200	.27750	.01240	.04730	.07150	.08150
1.248	-2.350	-.06140	.02680	.08930	-.03150	.01310	.27710	.01200	.04590	.07050	.07910
1.248	-.150	-.06190	.02900	.01180	-.00690	.00470	.27430	.01180	.04500	.06940	.07800
1.248	2.040	-.06300	.03160	-.06510	.01850	-.00400	.28060	.01200	.04570	.06910	.07840
1.248	4.250	-.06320	.03000	-.13880	.03900	-.01210	.28340	.01190	.04540	.06470	.07850
1.248	6.490	-.06540	.02880	-.22130	.06360	-.02070	.28560	.01270	.04830	.06280	.08220
1.248	-.140	-.06220	.02710	.01220	-.00840	.00480	.27780	.01160	.04440	.06810	.07510

1A71 TABULATED SOURCE DATA

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MSFC TMT610 (1A-71) 77-0,7A-TS 210

(RIK036) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 8/ 0 RW/L = 6.61

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CACE
1.050	-6.420	-0.0540	.05080	.31560	-.14450	.05310	.25980	.01240	.04720	.08160	.06450
1.050	-4.310	-.09480	.06100	.20990	-.08820	.03590	.26630	.01240	.04740	.08050	.08110
1.050	-2.230	-.10560	.07160	.11580	-.05720	.02030	.27090	.01230	.04690	.07880	.07780
1.050	-.170	-.11550	.07810	.02470	-.01470	.00550	.27090	.01240	.04710	.07720	.08030
1.050	1.870	-.11760	.07870	-.07050	.03080	-.01000	.27010	.01200	.04570	.07440	.08300
1.050	3.930	-.10880	.07160	-.15810	.07100	-.02500	.26360	.01190	.04520	.06690	.07750
1.050	6.030	-.10420	.06600	-.25150	.11240	-.04170	.27830	.01260	.04810	.06430	.08260
1.050	-.170	-.11550	.07790	.02360	-.01470	.00560	.27100	.01240	.04720	.07730	.08010

MSFC TMT610 (1A-71) 77-0,7A-TS 210

(RIK037) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 70/ 0 RW/L = 6.34

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CACE
.949	-7.170	-.56790	.25060	-.00590	.00270	.00260	.20110	.00990	.03780	.06670	.07980
.949	-4.850	-.44160	.20740	-.00740	.00120	.00230	.20490	.00900	.03450	.06390	.07670
.949	-2.560	-.30660	.16060	-.01010	.00110	.00130	.20720	.00860	.03290	.06260	.07510
.949	-.340	-.17590	.10660	-.00460	-.00200	.00060	.20470	.00830	.03150	.06370	.07540
.949	1.900	-.03290	.04650	-.00960	.00050	-.00070	.19490	.00840	.03220	.06110	.07620
.949	4.140	.10900	-.01720	-.01200	.00220	-.00080	.18880	.00870	.03330	.06120	.07500
.949	6.470	.26460	-.07350	-.00950	.00000	.00000	.18470	.00890	.03390	.06450	.07610
.949	-.320	-.16640	.10350	-.00800	-.00030	.00050	.21120	.00880	.03350	.06620	.07810

RUN NO. 71/ 0 RW/L = 6.61

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CACE
1.149	-7.340	-.62950	.26570	.00460	-.00770	.00350	.30420	.01310	.05060	.07930	.08570
1.149	-4.930	-.45090	.21770	.00530	-.00680	.00280	.30480	.01280	.04890	.07540	.08350
1.149	-2.570	-.28270	.15120	.00640	-.01170	.00300	.30610	.01260	.04820	.07270	.08160
1.149	-.240	-.12820	.08940	.00680	-.01250	.00290	.30210	.01250	.04760	.07090	.08250
1.149	2.070	.02690	.02340	.00690	-.01240	.00240	.29510	.01250	.04750	.06970	.08130
1.149	4.390	.17780	-.03860	.01150	-.01410	.00210	.28820	.01240	.04710	.07160	.08050
1.149	6.740	.33700	-.10050	.01000	-.01440	.00210	.28380	.01250	.04770	.07350	.07980
1.149	-.230	-.12340	.06750	.01030	-.01280	.00260	.30090	.01250	.04750	.07120	.08260

C.4

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IA71 TABULATED SOURCE DATA

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MSFC TWT610 (IA-71) 77-0.74-TS Z10

(RIK037) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 69/ 0 RN/L = 6.64

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.197	-7.390	-60460	.25910	-.00360	-.00090	.00290	.29870	.01250	.04770	.07200	.08290
1.197	-4.960	-41220	.18100	-.00210	-.00210	.00290	.29710	.01190	.04530	.06980	.09070
1.197	-2.960	-23760	.11090	-.00210	-.00190	.00230	.29850	.01160	.04400	.06620	.07910
1.197	-2.30	-08010	.05030	-.00300	-.00210	.00170	.29650	.01130	.04310	.06540	.07950
1.197	2.070	.06040	-.00380	-.00140	-.00310	.00150	.29220	.01130	.04300	.06520	.07880
1.197	4.380	.20190	-.06010	-.00030	-.00510	.00100	.28640	.01150	.04370	.06790	.07800
1.197	6.760	.35690	-.11760	-.00080	-.00490	.00110	.28070	.01170	.04460	.06830	.07710
1.197	-2.20	-.07940	.05160	-.00310	-.00190	.00180	.30010	.01110	.04240	.06280	.07870

RUN NO. 108/ 0 RN/L = 6.49

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
1.462	-7.460	-57440	.22920	-.01080	.00090	.00290	.30320	.00930	.03540	.05180	.06240
1.462	-5.020	-39170	.15880	-.00260	-.00300	.00380	.30250	.00880	.03370	.04780	.06130
1.462	-2.640	-.23180	.09870	-.00250	-.00310	.00340	.30090	.00860	.03270	.04810	.06000
1.462	-.280	-.07970	.04280	-.00550	-.00240	.00320	.29890	.00850	.03280	.04860	.05960
1.462	2.080	.07070	-.01150	-.00220	-.00310	.00290	.29910	.00850	.03230	.04780	.05870
1.462	4.380	.20360	-.06480	-.00090	-.00350	.00250	.29590	.00820	.03140	.04910	.05700
1.462	6.740	.34630	-.11680	-.00410	-.00110	.00240	.29180	.00850	.03250	.05000	.05730
1.462	-.250	-.07560	.04140	-.00270	-.00350	.00320	.30010	.00830	.03170	.04820	.05680

MSFC TWT610 (IA-71) 74-OTS (STEEL)

(RIK101) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 301/ 0 RN/L = 5.86

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.799	-7.040	.01250	-.51700	.21210	.00000	.7780	-.31210
.799	-4.840	.01210	-.38160	.15310	.00000	.28770	-.30720
.799	-2.600	.01160	-.24710	.10290	.00000	.28610	-.30010
.799	-.400	.01140	-.12210	.05680	.00000	.28360	-.30190
.799	1.820	.01140	.00980	.01160	.00000	.28040	-.30230
.799	4.050	.01120	.3860	-.02780	.00000	.27590	-.30260
.799	6.290	.01080	.27240	-.07470	.00000	.26590	-.30290
.799	-.410	.01140	-.12910	.05970	.00000	.28470	-.30190

1A71 TABULATED SOURCE DATA

MSFC TW610 (1A-71) 74-OTS (STEEL)

(RIK101) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 302/ 1 RN/L = 6.27

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.901	-7.260	.01330	-.52900	.81100	.00000	.31830	-.34320
.901	-4.980	.01250	-.39950	.14950	.00000	.31420	-.32010
.901	-2.730	.01210	-.23020	.08840	.00000	.31280	-.32180
.901	-.500	.01180	-.09100	.02930	.00000	.30990	-.31610
.901	1.740	.01170	.04590	-.02400	.00000	.30540	-.31520
.901	3.970	.01180	.16490	-.06440	.00000	.30220	-.32490
.901	6.270	.01170	.29310	-.09860	.00000	.30250	-.34590
.901	-.490	.01200	-.09470	.03110	.00000	.31050	-.31660

RUN NO. 303/ 2 RN/L = 6.52

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.998	-7.300	.01490	-.57220	.26510	.00000	.45050	-.46900
.998	-4.960	.01480	-.40820	.19980	.00000	.44860	-.45450
.998	-2.680	.01470	-.26290	.14220	.00000	.44150	-.43880
.998	-.410	.01500	-.12180	.08570	.00000	.44570	-.43450
.998	1.830	.01540	.03180	.01240	.00000	.43820	-.41540
.998	4.090	.01550	.17760	-.05410	.00000	.43910	-.42240
.998	6.380	.01490	.33190	-.11960	.00000	.42730	-.43530
.998	-.410	.01520	-.11980	.08230	.00000	.43770	-.42730

RUN NO. 304/ 1 RN/L = 6.57

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.052	-7.340	.01550	-.57290	.26030	.00000	.46140	-.45070
1.052	-5.000	.01520	-.40690	.19520	.00000	.45690	-.43590
1.052	-2.670	.01470	-.25530	.13600	.00000	.45180	-.41660
1.052	-.390	.01500	-.10750	.07690	.00000	.44840	-.42510
1.052	1.680	.01520	.03760	.01120	.00000	.44150	-.40530
1.052	4.120	.01500	.18550	-.05770	.00000	.43540	-.39630
1.052	6.450	.01530	.33070	-.11040	.00000	.42880	-.41070
1.052	-.370	.01550	-.10790	.07860	.00000	.44960	-.43290

1A71 TABULATED SOURCE DATA

(RIK101) (16 APR 75)

MSFC THT810 (1A-71) 7N-OYS (STEEL)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 305/ 0 RN/L = 6.64

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.102	-7.800	.01310	-.50320	.25790	.00000	.46300	-.43440
1.102	-4.920	.01500	-.40420	.19940	.00000	.46250	-.41780
1.102	-2.600	.01570	-.25580	.14150	.00000	.46750	-.41460
1.102	-.300	.01470	-.10730	.08140	.00000	.45840	-.39070
1.102	2.000	.01490	.04330	.01510	.00000	.45420	-.38290
1.102	4.260	.01510	.19500	-.05430	.00000	.45300	-.39320
1.102	6.600	.01520	.34500	-.11060	.00000	.44380	-.39780
1.102	-.300	.01480	-.10840	.08170	.00000	.45900	-.39180

RUN NO. 306/ 1 RN/L = 6.68

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.248	-7.500	.01510	-.55400	.22870	.00000	.46730	-.40280
1.248	-5.080	.01480	-.36430	.15330	.00000	.46590	-.38770
1.248	-2.690	.01460	-.19800	.08850	.00000	.46550	-.36520
1.248	-.350	.01420	-.04230	.03050	.00000	.46410	-.35930
1.248	1.970	.01420	.09360	-.02180	.00000	.46010	-.35530
1.248	4.270	.01450	.23360	-.07950	.00000	.45660	-.36790
1.248	6.610	.01490	.38070	-.13520	.00000	.45280	-.37790
1.248	-.320	.01390	-.03740	.02740	.00000	.46180	-.35090

RUN NO. 318/ 0 RN/L = 6.49

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.462	-7.490	.01370	-.55160	.22100	.00000	.45490	-.30970
1.462	-5.060	.01310	-.36980	.14860	.00000	.45040	-.30240
1.462	-2.680	.01290	-.20550	.08630	.00000	.45040	-.29830
1.462	-.310	.01260	-.05180	.02880	.00000	.44710	-.29270
1.462	2.040	.01240	.09990	-.02750	.00000	.44390	-.28580
1.462	4.330	.01230	.22890	-.07710	.00000	.44250	-.29290
1.462	6.690	.01250	.36920	-.12830	.00000	.44030	-.30170
1.462	-.300	.01260	-.04510	.02680	.00000	.44710	-.29250

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1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 7N-OTS (STEEL)

(RIK101) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 317/ 0 RN/L = 7.06

MACH	ALPHA	CMSF	CNU	CLMU	CABF	CA	CPQ2
1.961	-7.490	.00980	-.50510	.19950	.00000	.39520	-.20740
1.961	-5.080	.00950	-.34940	.14050	.00000	.38890	-.19700
1.961	-2.720	.00940	-.21220	.09090	.00000	.38340	-.19650
1.961	-.370	.00970	-.07780	.04270	.00000	.38330	-.19580
1.961	1.980	.01010	.05970	-.00820	.00000	.38260	-.20570
1.961	4.300	.01010	.19050	-.06640	.00000	.38470	-.21280
1.961	6.680	.01000	.34520	-.12620	.00000	.38930	-.20790
1.961	-.340	.00970	-.36880	.04010	.00000	.37560	-.19700

MSFC TWT610 (1A-71) 7N-OTS (STEEL)

(RIK102) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 307/ 0 RN/L = 6.56

MACH	BETA	CMSF	CNU	CLMU	CABF	CA	CPQ2
1.047	-6.410	.01660	-.07650	.05190	.00000	.46300	-.47160
1.047	-4.320	.01570	-.08140	.05830	.00000	.46070	-.45880
1.047	-2.250	.01580	-.09370	.06970	.00000	.46080	-.45470
1.047	-.190	.01510	-.10360	.07620	.00000	.45500	-.43030
1.047	1.850	.01510	-.10290	.07470	.00000	.45530	-.40850
1.047	3.900	.01570	-.10410	.07310	.00000	.45890	-.38990
1.047	6.000	.01550	-.09450	.06470	.00000	.45800	-.35980
1.047	-.190	.01580	-.10770	.07920	.00000	.45660	-.44650

IA71 TABULATED SOURCE DATA

MSFC TWTB10 (1A-7) 74-OTS 210

(RIK103) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 312/ 0 RN/L = 5.96

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.798	-7.090	.01310	-.67010	.33230	.00000	.34110	-.31680
.798	-4.880	.01250	-.54300	.27940	.00000	.33800	-.29840
.798	-2.850	.01210	-.40510	.22870	.00000	.33800	-.30740
.798	-.450	.01160	-.28000	.18160	.00000	.33460	-.31020
.798	1.760	.01150	-.15650	.14060	.00000	.33050	-.31650
.798	3.980	.01140	-.03580	.10470	.00000	.32300	-.31720
.798	6.230	.01120	.10470	.05560	.00000	.31200	-.32320
.798	-.450	.01170	-.28450	.18420	.00000	.33640	-.31290

RUN NO. 311/ 0 RN/L = 6.30

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.901	-7.230	.01420	-.63100	.34380	.00000	.37480	-.34330
.901	-4.930	.01370	-.54060	.28750	.00000	.37190	-.32400
.901	-2.710	.01320	-.40880	.23370	.00000	.37540	-.33290
.901	-.470	.01330	-.27970	.18320	.00000	.37400	-.34720
.901	1.750	.01290	-.14720	.13090	.00000	.36490	-.34280
.901	3.990	.01280	-.00960	.07520	.00000	.35530	-.35330
.901	6.310	.01250	.14840	.01920	.00000	.34530	-.36110
.901	-.470	.01260	-.27470	.18070	.00000	.36990	-.33910

RUN NO. 310/ 1 RN/L = 6.51

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.995	-7.230	.02000	-.68520	.36280	.00000	.52830	-.48370
.995	-4.910	.01990	-.53780	.30700	.00000	.52470	-.47000
.995	-2.630	.01960	-.39940	.25520	.00000	.52150	-.46480
.995	-.390	.01890	-.27220	.20450	.00000	.51370	-.45840
.995	1.860	.01940	-.13090	.14490	.00000	.51750	-.45910
.995	4.120	.01950	.02410	.07250	.00000	.50460	-.47480
.995	6.440	.01900	.18860	.00150	.00000	.49190	-.47530
.995	-.380	.01890	-.26990	.20390	.00000	.51520	-.45920

IA71 TABULATED SOURCE DATA

MSFC TWT610 (IA-71) 74-OTS ZIC

(RIK103) (16 APR '75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 309/ 0 RN/L = 6.59

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.053	-7.290	.01730	-.67260	.34650	.00000	.53480	-.45060
1.053	-4.950	.01670	-.52150	.29170	.00000	.52820	-.43340
1.053	-2.650	.01640	-.39610	.24330	.00000	.52400	-.42650
1.053	-.350	.01670	-.25240	.19940	.00000	.51790	-.42530
1.053	1.880	.01710	-.12140	.13940	.00000	.51060	-.41450
1.053	4.160	.01650	.04080	.06350	.00000	.49780	-.40100
1.053	6.500	.01710	.19600	.00360	.00000	.48590	-.42260
1.053	-.360	.01710	-.25380	.19640	.00000	.52080	-.43320

RUN NO. 313/ 0 RN/L = 6.66

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.109	-7.360	.01750	-.57220	.33830	.00000	.54050	-.45030
1.109	-4.970	.01670	-.50940	.29060	.00000	.53850	-.42930
1.109	-2.650	.01640	-.36490	.22840	.00000	.53250	-.42150
1.109	-.330	.01630	-.22440	.17790	.00000	.52490	-.41810
1.109	1.950	.01680	-.07340	.11080	.00000	.51650	-.41370
1.109	4.250	.01720	.08740	.03950	.00000	.51010	-.42440
1.109	6.590	.01720	.25550	-.02830	.00000	.49570	-.42240
1.109	-.330	.01630	-.22110	.17540	.00000	.52400	-.41580

RUN NO. 314/ 0 RN/L = 6.72

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.250	-7.450	.01690	-.63700	.30140	.00000	.52200	-.38690
1.250	-5.010	.01670	-.44040	.21920	.00000	.51470	-.39250
1.250	-2.630	.01620	-.26220	.14570	.00000	.50590	-.37460
1.250	-.270	.01600	-.10300	.08530	.00000	.50030	-.36960
1.250	2.050	.01630	.03510	.03400	.00000	.49730	-.36740
1.250	4.350	.01650	.17730	-.02590	.00000	.49250	-.36280
1.250	6.710	.01670	.33060	-.08560	.00000	.49230	-.35460
1.250	-.250	.01580	-.09600	.08240	.00000	.49790	-.36560

IA71 TABULATED SOURCE DATA

MSFC TWT610 (IA-71) 74-OTS Z10

(RIK103) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 315/ 0 RN/L = 6.49

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.472	-7.470	.01360	-.59430	.26470	.00000	.48240	-.29920
1.472	-5.070	.01320	-.41940	.19600	.00000	.47550	-.29160
1.472	-2.660	.01300	-.25130	.13060	.00000	.47180	-.29290
1.472	-.310	.01290	-.09820	.07220	.00000	.46680	-.29070
1.472	2.050	.01290	.05480	.01490	.00000	.46410	-.28470
1.472	4.350	.01300	.18850	-.03820	.00000	.45960	-.28330
1.472	6.700	.01310	.33190	-.09350	.00000	.45320	-.29700
1.472	-.290	.01280	-.08950	.06900	.00000	.46480	-.28590

RUN NO. 316/ 0 RN/L = 7.08

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.954	-7.530	.01010	-.54480	.22920	.00000	.42550	-.20970
1.954	-5.110	.00990	-.38600	.16920	.00000	.41800	-.19990
1.954	-2.730	.00990	-.24260	.11690	.00000	.41240	-.20230
1.954	-.370	.01020	-.10470	.06550	.00000	.40800	-.20310
1.954	1.980	.01050	.03350	.01520	.00000	.39990	-.20960
1.954	4.320	.01030	.17770	-.04560	.00000	.40400	-.21340
1.954	6.660	.01090	.31530	-.10260	.00000	.39400	-.21170
1.954	-.330	.00990	-.09380	.06370	.00000	.38880	-.20170

MSFC TWT610 (IA-71) 74-OTS Z10

(RIK104) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 308/ 0 RN/L = 6.58

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.048	-6.420	.01740	-.19550	.14650	.00000	.51930	-.46750
1.048	-4.310	.01640	-.21530	.16550	.00000	.52040	-.45180
1.048	-2.240	.01620	-.23080	.18010	.00000	.52050	-.44940
1.048	-.180	.01640	-.24630	.19130	.00000	.51740	-.44260
1.048	1.860	.01670	-.24290	.18780	.00000	.51570	-.42840
1.048	3.930	.01590	-.23470	.17950	.00000	.51710	-.39080
1.048	6.030	.01640	-.22420	.16670	.00000	.51650	-.37850
1.048	-.180	.01670	-.24500	.19060	.00000	.51760	-.44810

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A71 TABULATED SOURCE DATA

(RIK105) (15 APR 75)

MSFC TWTB10 (1A-71) 74-OTS 210

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 323/ 0 RN/L = 5.81

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.799	-7.150	.01180	-.60440	.27890	.00000	.31380	-.30120
.799	-4.940	.01110	-.47980	.22880	.00000	.31040	-.30380
.799	-2.720	.01060	-.34690	.17970	.00000	.30830	-.30520
.799	-.530	.01020	-.22810	.13370	.00000	.30400	-.30640
.799	1.710	.01000	-.09290	.08840	.00000	.30070	-.30680
.799	3.940	.01000	.03970	.04520	.00000	.29370	-.30420
.799	6.170	.00930	.17930	-.00580	.00000	.27980	-.30560
.799	-.500	.01050	-.22090	.13100	.00000	.30870	-.30300

RUN NO. 324/ 1 RN/L = 6.28

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.903	-7.260	.01360	-.61190	.28030	.00000	.34710	-.34570
.903	-4.980	.01280	-.45950	.22380	.00000	.34100	-.33370
.903	-2.750	.01220	-.32520	.16770	.00000	.33730	-.33710
.903	-.520	.01180	-.19330	.11590	.00000	.33420	-.33840
.903	1.720	.01170	-.06320	.06410	.00000	.32860	-.33960
.903	3.950	.01160	.08730	-.00170	.00000	.32150	-.34670
.903	6.250	.01150	.23250	-.05080	.00000	.31670	-.36580
.903	-.500	.01200	-.19660	.11700	.00000	.33780	-.33790

RUN NO. 323/ 0 RN/L = 6.37

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.952	-7.330	.01450	-.59600	.26800	.00000	.40510	-.38140
.952	-5.000	.01340	-.45610	.22310	.00000	.38280	-.34580
.952	-2.740	.01310	-.32460	.17550	.00000	.38020	-.33230
.952	-.480	.01300	-.19350	.12800	.00000	.37790	-.32990
.952	1.770	.01310	-.04760	.06380	.00000	.37420	-.33150
.952	4.010	.01250	.10280	-.00270	.00000	.36360	-.34120
.952	6.290	.01170	.24690	-.06040	.00000	.35460	-.35710
.952	-.470	.01320	-.18820	.12800	.00000	.38360	-.33560

IA71 TABULATED SOURCE DATA

MSFC THT610 (1A-71) 74-OTS 210 (RIK105) (15 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 321/ 3 RN/L = 8.53

MACH	ALPHA	CNEF	CNU	CLMU	CABF	CA	CPB2
1.000	-7.310	.01540	-.62010	.30390	.00000	.49210	-.47280
1.000	-4.980	.01530	-.46300	.24400	.00000	.48710	-.45770
1.000	-2.700	.01550	-.32840	.19290	.00000	.48080	-.44640
1.000	-.440	.01580	-.18990	.13920	.00000	.47900	-.43310
1.000	1.800	.01590	-.04420	.07220	.00000	.46730	-.42140
1.000	4.060	.01590	.10710	.00270	.00000	.46280	-.42840
1.000	6.370	.01500	.27030	-.06830	.00000	.44620	-.43740
1.000	-.430	.01570	-.18820	.13820	.00000	.47230	-.43320

RUN NO. 326/ 1 RN/L = 6.58

MACH	ALPHA	CNEF	CNU	CLMU	CABF	CA	CPB2
1.052	-7.380	.01730	-.62420	.30150	.00000	.50590	-.47040
1.052	-5.010	.01680	-.46120	.24030	.00000	.49950	-.45030
1.052	-2.710	.01630	-.31770	.18710	.00000	.49320	-.43340
1.052	-.410	.01600	-.17640	.13360	.00000	.48340	-.42170
1.052	1.840	.01620	-.03100	.06720	.00000	.47280	-.40520
1.052	4.100	.01680	.11650	-.00020	.00000	.46280	-.41290
1.052	6.450	.01580	.28630	-.07010	.00000	.44840	-.40520
1.052	-.400	.01670	-.17800	.13420	.00000	.48410	-.43880

RUN NO. 327/ 0 RN/L = 6.60

MACH	ALPHA	CNEF	CNU	CLMU	CABF	CA	CPB2
1.105	-7.410	.01480	-.62560	.30390	.00000	.50790	-.42190
1.105	-5.030	.01430	-.46390	.24350	.00000	.50020	-.40260
1.105	-2.720	.01370	-.31660	.18770	.00000	.49290	-.38380
1.105	-.410	.01360	-.17070	.13070	.00000	.48310	-.38050
1.105	1.890	.01370	-.02050	.06440	.00000	.47390	-.36380
1.105	4.170	.01350	.13050	-.06410	.00000	.46710	-.35770
1.105	6.510	.01260	.28870	-.06530	.00000	.45250	-.35050
1.105	-.400	.01390	-.16960	.13100	.00000	.48820	-.38580

IA71 TABULATED SOURCE DATA

HSFC TWB10 (IA-71) 74-OTS Z10 (RIK105) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 328/ 0 RN/L = 6.61

MACH	ALPHA	CNEF	CNU	CLMU	CABF	CA	CP82
1.151	-7.510	.01530	-.64530	.30410	.00000	.51310	-.44490
1.151	-5.120	.01510	-.47350	.24000	.00000	.50320	-.42200
1.151	-2.740	.01480	-.31080	.17900	.00000	.49760	-.40140
1.151	-.400	.01450	-.14970	.11530	.00000	.48930	-.39120
1.151	1.900	.01430	.00600	.04640	.00000	.47990	-.37340
1.151	4.190	.01430	.15940	-.02290	.00000	.47770	-.39050
1.151	6.550	.01440	.31560	-.08310	.00000	.47150	-.39920
1.151	-.390	.01440	-.14770	.11390	.00000	.48930	-.39010

RUN NO. 329/ 0 RN/L = 6.64

MACH	ALPHA	CNEF	CNU	CLMU	CABF	CA	CP82
1.200	-7.510	.01510	-.61220	.27930	.00000	.50440	-.41140
1.200	-5.080	.01470	-.41510	.19700	.00000	.49710	-.38940
1.200	-2.710	.01430	-.23740	.12360	.00000	.49110	-.36860
1.200	-.350	.01400	-.07670	.06040	.00000	.48560	-.36050
1.200	1.970	.01380	.06810	.00110	.00000	.47840	-.36460
1.200	4.270	.01380	.21120	-.05630	.00000	.47490	-.38160
1.200	6.620	.01350	.35830	-.11050	.00000	.46780	-.37980
1.200	-.340	.01400	-.07300	.05870	.00000	.48610	-.36280

RUN NO. 320/ 0 RN/L = 6.71

MACH	ALPHA	CNEF	CNU	CLMU	CABF	CA	CP82
1.249	-7.450	.01660	-.58950	.25980	.00000	.49360	-.39900
1.249	-5.030	.01640	-.39760	.18220	.00000	.48830	-.38670
1.249	-2.630	.01590	-.22680	.11370	.00000	.48460	-.37610
1.249	-.270	.01590	-.07130	.05670	.00000	.48220	-.37140
1.249	2.050	.01600	.07190	.00120	.00000	.47940	-.37160
1.249	4.350	.01630	.21080	-.05560	.00000	.47880	-.38880
1.249	6.710	.01640	.36340	-.11460	.00000	.47170	-.39370
1.249	-.250	.01540	-.06040	.05070	.00000	.47890	-.36310

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 74-OTS Z10 (RIK105) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 319/ 0 RN/L = 6.53

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.460	-7.490	.01290	-.57310	.24000	.00000	.46550	-.30830
1.460	-5.060	.01260	-.38860	.16560	.00000	.45740	-.29340
1.460	-2.680	.01260	-.22450	.10220	.00000	.45690	-.29160
1.460	-.320	.01260	-.06980	.04410	.00000	.45290	-.26990
1.460	2.030	.01250	.08000	-.01090	.00000	.44860	-.28220
1.460	4.330	.01250	.21300	-.06290	.00000	.44710	-.28500
1.460	6.690	.01280	.35520	-.11590	.00000	.44360	-.29540
1.460	-.290	.01260	-.06410	.04410	.00000	.44950	-.28650

RUN NO. 350/ 0 RN/L = 7.02

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.963	-7.560	.00220	-.51630	.21030	.00000	.40000	-.20440
1.963	-5.150	.00280	-.36010	.15060	.00000	.39110	-.18820
1.963	-2.790	.00330	-.22180	.10080	.00000	.38580	-.19140
1.963	-.450	.00400	-.08870	.05240	.00000	.38200	-.19460
1.963	1.890	.00470	.04740	.00110	.00000	.38020	-.20220
1.963	4.210	.00520	.18580	-.05790	.00000	.38550	-.20600
1.963	6.560	.00500	.32640	-.11520	.00000	.37950	-.19770
1.963	-.430	.00410	-.08190	.05020	.00000	.37810	-.19460

MSFC TWT610 (1A-71) 74-OTS Z10 (RIK106) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 331/ 0 RN/L = 6.25

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
.899	-6.580	.01370	-.18150	.11020	.00000	.36960	-.40410
.899	-4.420	.01310	-.19210	.11910	.00000	.36780	-.39370
.899	-2.270	.01260	-.20290	.12700	.00000	.36320	-.36980
.899	-.140	.01250	-.21110	.13210	.00000	.35940	-.35080
.899	2.000	.01270	-.20390	.12750	.00000	.36000	-.33130
.899	4.130	.01320	-.19890	.12410	.00000	.36230	-.31690
.899	6.290	.01330	-.19120	.11690	.00000	.36190	-.31330
.899	-.120	.01250	-.21010	.13170	.00000	.35830	-.35040

ORIGINAL PAGE IS
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IA71 TABULATED SOURCE DATA

(RIK108) (18 APR 75)

MSFC TWT810 (IA-71) 7N-OTS 210

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLTPON = 20.000

RUN NO. 330/ 0 RN/L = 6.53

MACH	BETA	CNBF	CNU	CLMU	CASF	CA	CPB2
1.050	-6.670	.01570	-.13170	.09420	.00000	.48120	-.46110
1.050	-4.460	.01480	-.14940	.11230	.00000	.48250	-.44240
1.050	-2.300	.01500	-.16320	.12620	.00000	.48520	-.44030
1.050	-.150	.01570	-.17360	.13510	.00000	.48270	-.44150
1.050	2.000	.01410	-.16530	.12750	.00000	.48090	-.39900
1.050	4.150	.01470	-.16530	.12290	.00000	.48440	-.39400
1.050	6.310	.01430	-.14530	.10660	.00000	.48160	-.36990
1.050	-.130	.01530	-.17230	.13500	.00000	.48120	-.43190

RUN NO. 332/ 1 RN/L = 6.67

MACH	BETA	CNBF	CNU	CLMU	CASF	CA	CPB2
1.251	-6.750	.00600	-.09540	.06110	.00000	.43460	-.27620
1.251	-4.540	.00600	-.10220	.07200	.00000	.43280	-.27450
1.251	-2.330	.00640	-.10730	.07920	.00000	.43470	-.27800
1.251	-.150	.00690	-.11410	.08380	.00000	.43100	-.27020
1.251	2.020	.00640	-.11590	.08700	.00000	.43560	-.25890
1.251	4.200	.00680	-.12160	.08810	.00000	.43940	-.24240
1.251	6.390	.00670	-.11300	.07810	.00000	.44030	-.22800
1.251	-.150	.00640	-.10330	.07510	.00000	.42780	-.25510

RUN NO. 351/ 0 RN/L = 6.54

MACH	BETA	CNBF	CNU	CLMU	CASF	CA	CPB2
1.460	-6.780	.00750	-.07040	.04030	.00000	.45620	-.29130
1.460	-4.530	.00720	-.07180	.04400	.00000	.45210	-.28930
1.460	-2.330	.00670	-.07520	.04820	.00000	.45280	-.28720
1.460	-.130	.00760	-.07210	.04730	.00000	.45090	-.29080
1.460	2.060	.00750	-.07030	.04500	.00000	.45370	-.28770
1.460	4.230	.00750	-.06920	.04370	.00000	.45560	-.27880
1.460	6.460	.00780	-.07150	.04240	.00000	.45710	-.26660
1.460	-.140	.00650	-.07890	.04980	.00000	.44700	-.28220

IA71 TABULATED SOURCE DATA

(RIK107) (16 APR 75)

MSFC TMT810 (IA-71) 74-OTS Z10

PARAMETRIC DATA

BETA = .000 CRBINC = .000
FLIPOR = .000

RUN NO. 338/ 0 RN/L = 6.39

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.950	-7.300	.01210	-.51780	.20590	.00000	.36330	-.35930
.950	-4.980	.01170	-.36420	.14950	.00000	.35700	-.33990
.950	-2.720	.01150	-.23320	.10120	.00000	.35080	-.32260
.950	-4.70	.01110	-.08880	.03720	.00000	.33640	-.30830
.950	1.780	.01120	.06290	-.03190	.00000	.33310	-.30960
.950	4.030	.01180	.18950	-.07940	.00000	.33780	-.32170
.950	6.300	.01140	.32130	-.12570	.00000	.33120	-.34060
.950	-4.60	.01200	-.05430	.04570	.00000	.34660	-.31110

RUN NO. 339/ 0 RN/L = 6.67

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.149	-7.480	.01350	-.59480	.26500	.00000	.47950	-.45760
1.149	-5.080	.01330	-.42010	.19890	.00000	.47280	-.43790
1.149	-2.720	.01320	-.25350	.13310	.00000	.47010	-.41240
1.149	-.380	.01300	-.09410	.06510	.00000	.46760	-.40390
1.149	1.910	.01310	.05860	.00300	.00000	.46450	-.38720
1.149	4.220	.01420	.20520	-.06150	.00000	.46240	-.40260
1.149	6.560	.01430	.35870	-.11920	.00000	.45630	-.40780
1.149	-.370	.01370	-.09200	.06920	.00000	.46520	-.40270

RUN NO. 340/ 0 RN/L = 6.66

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.201	-7.500	.01380	-.55960	.23510	.00000	.47410	-.41640
1.201	-5.070	.01350	-.36960	.15770	.00000	.47260	-.39780
1.201	-2.710	.01340	-.19810	.08800	.00000	.47180	-.37260
1.201	-.340	.01300	-.03520	.02470	.00000	.47110	-.37400
1.201	1.960	.01280	.10190	-.02980	.00000	.46540	-.36280
1.201	4.280	.01320	.24660	-.08800	.00000	.46350	-.37650
1.201	6.620	.01290	.39040	-.13990	.00000	.45600	-.37160
1.201	-.320	.01260	-.03600	.02610	.00000	.46970	-.36480

1A71 TABULATED SOURCE DATA

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MSFC TWT810 (1A-71) 7N-OTS Z10

(RIK107) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 322/ 0 RN/L = 6.71

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CP82
1.251	-7.440	.01670	-.24620	.22410	.00000	.46990	-.40220
1.251	-5.030	.01620	-.36240	.15120	.00000	.46990	-.38770
1.251	-2.630	.01560	-.19420	.06260	.00000	.46990	-.37720
1.251	-.260	.01560	-.03940	.02930	.00000	.47040	-.37380
1.251	2.070	.01540	.10060	-.02440	.00000	.46650	-.37170
1.251	4.370	.01560	.24050	-.08140	.00000	.46620	-.38290
1.251	6.710	.01620	.39990	-.13820	.00000	.46060	-.39350
1.251	-.250	.01500	-.02970	.02400	.00000	.46690	-.38410

MSFC TWT810 (1A-71) 7N-OTS Z10

(RIK108) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 335/ 0 RN/L = 6.26

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CP82
.903	-6.570	.01290	-.07560	.02420	.00000	.34150	-.39030
.903	-4.430	.01270	-.07290	.02220	.00000	.34200	-.37240
.903	-2.270	.01210	-.07740	.02420	.00000	.33360	-.34550
.903	-.140	.01170	-.07810	.02410	.00000	.32940	-.32480
.903	1.990	.01210	-.07400	.02030	.00000	.33130	-.30210
.903	4.120	.01230	-.07020	.01830	.00000	.33760	-.28650
.903	6.260	.01310	-.07530	.02230	.00000	.34010	-.28570
.903	-.140	.01170	-.07770	.02350	.00000	.33180	-.32460

RUN NO. 337/ 0 RN/L = 6.41

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CP82
.953	-6.590	.01370	-.07560	.03500	.00000	.38840	-.42930
.953	-4.440	.01320	-.07360	.03550	.00000	.38430	-.40290
.953	-2.280	.01310	-.08240	.04190	.00000	.37950	-.38140
.953	-.140	.01360	-.09600	.05120	.00000	.37660	-.36360
.953	1.980	.01330	-.08250	.04000	.00000	.37380	-.33790
.953	4.110	.01340	-.07800	.03700	.00000	.37870	-.31400
.953	6.270	.01370	-.07900	.03600	.00000	.37960	-.30260
.953	-.140	.01330	-.09660	.05230	.00000	.37640	-.35770

1A71 TABULATED SOURCE DATA

(IRIKIDE) (16 APR 75)

MSFC TMT810 (1A-71) 7N-OYS 210

PARAMETRIC DATA

ALPHA = .000 ORRINC = .000
FLIPDR = .000

RUN NO. 353/ 0 RN/L = 6.50

MACH	BETA	CNEF	CNU	CLMU	CABF	CA	CP82
.993	-6.830	.01420	-.07760	.05050	.00000	.45400	-.46200
.993	-4.450	.01400	-.08210	.05760	.00000	.45410	-.46650
.993	-2.290	.01450	-.09520	.06860	.00000	.45100	-.46490
.993	-.150	.01470	-.10920	.07690	.00000	.44050	-.44530
.993	1.960	.01400	-.09850	.06850	.00000	.43790	-.41910
.993	4.100	.01410	-.09400	.06750	.00000	.45020	-.40850
.993	6.260	.01460	-.08580	.05940	.00000	.44650	-.38510
.993	-.150	.01480	-.10980	.07730	.00000	.44070	-.44590

RUN NO. 354/ 0 RN/L = 6.55

MACH	BETA	CNEF	CNU	CLMU	CABF	CA	CP82
1.100	-6.680	.01080	-.06190	.04340	.00000	.46500	-.41490
1.100	-4.470	.01070	-.07480	.05620	.00000	.46480	-.40800
1.100	-2.300	.01090	-.08410	.06660	.00000	.46410	-.40150
1.100	-.140	.01160	-.09220	.07370	.00000	.46030	-.39130
1.100	1.990	.01150	-.09280	.07260	.00000	.46320	-.38360
1.100	4.160	.01150	-.08960	.06820	.00000	.46720	-.36470
1.100	6.330	.01200	-.07970	.06020	.00000	.46790	-.341
1.100	-.120	.01140	-.09230	.07420	.00000	.46030	-.39230

RUN NO. 335/ 0 RN/L = 6.67

MACH	BETA	CNEF	CNU	CLMU	CABF	CA	CP82
1.152	-6.750	.01360	-.04900	.02370	.00000	.47710	-.42940
1.152	-4.520	.01350	-.05820	.03610	.00000	.47510	-.42620
1.152	-2.330	.01360	-.06500	.04500	.00000	.47250	-.42160
1.152	-.170	.01320	-.07610	.05180	.00000	.46750	-.42700
1.152	2.020	.01300	-.07040	.04970	.00000	.47220	-.40870
1.152	4.190	.01360	-.06910	.04650	.00000	.47850	-.39940
1.152	6.380	.01390	-.06210	.03870	.00000	.48030	-.38330
1.152	-.140	.01310	-.07500	.05250	.00000	.46820	-.42650

ORIGINAL PAGE IS
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1A71 TABULATED SOURCE DATA

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W5FC TWT810 (1A-71) 74-OTS 210

(RIK108) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 334/ 0 RM/L = 6.89

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.197	-6.690	.00860	-.07550	.05160	.00000	.44380	-.32600
1.197	-4.480	.00820	-.08670	.06350	.00000	.44310	-.32270
1.197	-2.310	.00850	-.09700	.07410	.00000	.44300	-.32230
1.197	-.150	.00880	-.10380	.08050	.00000	.43880	-.32560
1.197	2.010	.00830	-.10040	.07750	.00000	.44050	-.30810
1.197	4.150	.00850	-.09990	.07410	.00000	.44410	-.29190
1.197	6.340	.00900	-.09050	.06570	.00000	.44500	-.27480
1.197	-.120	.00840	-.10730	.08260	.00000	.43600	-.31450

RUN NO. 333/ 0 RM/L = 6.89

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.249	-6.750	.00590	-.06220	.03330	.00000	.41720	-.27570
1.249	-4.530	.00590	-.06230	.03860	.00000	.41320	-.27550
1.249	-2.320	.00610	-.06630	.04370	.00000	.41180	-.27650
1.249	-.150	.00650	-.06930	.04700	.00000	.40930	-.26960
1.249	2.010	.00600	-.07360	.05110	.00000	.41210	-.25710
1.249	4.190	.00640	-.07720	.05240	.00000	.41800	-.24160
1.249	6.400	.00680	-.07270	.04570	.00000	.42180	-.23420
1.249	-.140	.00640	-.07120	.04790	.00000	.40920	-.26790

RUN NO. 352/ 0 RM/L = 6.54

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.458	-6.790	.00610	-.04780	.01900	.00000	.44610	-.26480
1.458	-4.540	.00610	-.04930	.02270	.00000	.44320	-.26250
1.458	-2.330	.00620	-.04970	.02580	.00000	.44260	-.26070
1.458	-.140	.00670	-.04950	.02550	.00000	.44140	-.26340
1.458	2.040	.00700	-.04740	.02540	.00000	.44540	-.26350
1.458	4.230	.00740	-.04650	.02570	.00000	.44630	-.27990
1.458	6.460	.00750	-.04600	.02340	.00000	.44700	-.26980
1.458	-.120	.00700	-.05050	.02650	.00000	.44150	-.26380

IA71 TABULATED SOURCE DATA

MSFC TWT810 (IA-71) 7N-QTS Z10

(RIK109) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO. 347/ 0 RN/L = 6.80

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.047	-6.670	.01220	-.09260	.06570	.00000	.47180	-.47840
1.047	-4.470	.01240	-.11360	.08360	.00000	.47450	-.47690
1.047	-2.300	.01260	-.12890	.09810	.00000	.47580	-.46570
1.047	-.150	.01330	-.13760	.10650	.00000	.47290	-.45900
1.047	1.980	.01300	-.13370	.10210	.00000	.47310	-.43730
1.047	4.130	.01210	-.12460	.09300	.00000	.47410	-.39840
1.047	6.310	.01250	-.11450	.08360	.00000	.47360	-.39310
1.047	-.150	.01330	-.13720	.10640	.00000	.47200	-.45670

MSFC TWT810 (IA-71) 77-0.7N-15

(RIK110) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO. 345/ 0 RN/L = 5.94

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.799	-7.130	.01090	-.95430	.23840	.00000	.29740	-.30560
.799	-4.920	.01060	-.42730	.18670	.00000	.29820	-.30170
.799	-2.710	.01000	-.29610	.13830	.00000	.29660	-.29600
.799	-.510	.01010	-.16990	.08910	.00000	.29360	-.29440
.799	1.720	.01030	-.03870	.04380	.00000	.29040	-.29380
.799	3.960	.01020	.09360	.00080	.00000	.26330	-.29710
.799	6.180	.01010	.23580	-.05240	.00000	.27150	-.30480
.799	-.490	.01020	-.17040	.08990	.00000	.29500	-.29540

RUN NO. 344/ 0 RN/L = 6.29

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.907	-7.270	.01190	-.56560	.24400	.00000	.34010	-.32990
.907	-4.970	.01160	-.41560	.18840	.00000	.33650	-.31710
.907	-2.740	.01110	-.28160	.13260	.00000	.33450	-.31500
.907	-.510	.01090	-.14500	.07650	.00000	.32890	-.31240
.907	1.740	.01080	-.00690	.01940	.00000	.32340	-.30500
.907	3.980	.01080	.13820	-.04220	.00000	.31690	-.31780
.907	6.260	.01060	.26960	-.08130	.00000	.31400	-.33040
.907	-.490	.01080	-.14780	.07810	.00000	.33100	-.31350

1A71 TABULATED SOURCE DATA

(RIK110) (18 APR 75)

MSFC TWTB10 (1A-71) 77-0.74-TS

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 10.000

RUN NO. 343/ 0 RN/L = 6.48

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.995	-7.300	.01830	-.60260	.28980	.00000	.47960	-.48960
.995	-4.970	.01610	-.44310	.22690	.00000	.47650	-.47740
.995	-2.690	.01820	-.30050	.17220	.00000	.47020	-.46590
.995	-.430	.01650	-.16430	.11800	.00000	.46990	-.46090
.995	1.810	.01540	-.01540	.04780	.00000	.45790	-.44750
.995	4.070	.01640	.13640	-.02150	.00000	.45530	-.45400
.995	6.370	.01570	.29820	-.09220	.00000	.44190	-.46450
.995	-.420	.01590	-.15910	.11450	.00000	.46260	-.45310

RUN NO. 346/ 0 RN/L = 6.59

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.045	-7.350	.01480	-.60180	.28630	.00000	.49170	-.47230
1.045	-5.010	.01450	-.44420	.22620	.00000	.48780	-.45430
1.045	-2.700	.01420	-.29510	.16980	.00000	.48110	-.44150
1.045	-.410	.01430	-.15630	.11640	.00000	.47340	-.43530
1.045	1.840	.01500	-.00840	.04920	.00000	.46320	-.42170
1.045	4.110	.01410	.14910	-.02620	.00000	.45260	-.40590
1.045	6.450	.01460	.30030	-.08330	.00000	.44460	-.42090
1.045	-.400	.01430	-.15290	.11460	.00000	.47410	-.43540

RUN NO. 342/ 0 RN/L = 6.64

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.106	-7.470	.01500	-.61770	.28060	.00000	.49460	-.46550
1.106	-5.060	.01440	-.44490	.21560	.00000	.48940	-.45020
1.106	-2.740	.01450	-.28350	.15270	.00000	.48530	-.43230
1.106	-.400	.01450	-.12570	.09290	.00000	.48270	-.42100
1.106	1.910	.01490	.02330	.02960	.00000	.47300	-.40800
1.106	4.200	.01470	.17340	-.03540	.00000	.46550	-.40850
1.106	6.950	.01510	.32910	-.09190	.00000	.46070	-.41620
1.106	-.380	.01460	-.12400	.09150	.00000	.48210	-.42500

1A71 TABULATED SOURCE DATA

MSFC THT610 (1A-71) 77-0, 74-75 (RIK111D) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO. 341/ 0 RN/L = 6.89

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.250	-7.510	.01420	-.57830	.25400	.00000	.48850	-.41700
1.250	-5.080	.01350	-.38960	.17820	.00000	.49190	-.39620
1.250	-2.710	.01380	-.22420	.11310	.00000	.49130	-.38270
1.250	-.350	.01460	-.06990	.05490	.00000	.49120	-.38200
1.250	1.980	.01480	.07680	-.00440	.00000	.48700	-.38210
1.250	4.280	.01530	.21890	-.06380	.00000	.48560	-.40070
1.250	6.620	.01540	.37290	-.12460	.00000	.48190	-.41060
1.250	-.310	.01430	-.06120	.05130	.00000	.49150	-.38180

RUN NO. 346/ 0 RN/L = 6.53

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.463	-7.570	.00600	-.55830	.22840	.00000	.45420	-.29850
1.463	-5.140	.00590	-.37710	.15510	.00000	.44750	-.27430
1.463	-2.760	.00610	-.21200	.09100	.00000	.44700	-.27620
1.463	-.400	.00700	-.05830	.03430	.00000	.44420	-.27200
1.463	1.980	.00730	.09230	-.01990	.00000	.44130	-.26930
1.463	4.260	.00680	.22030	-.05930	.00000	.43800	-.27090
1.463	6.610	.00680	.35950	-.12090	.00000	.43450	-.28100
1.463	-.380	.00640	-.05470	.03560	.00000	.44030	-.26700

RUN NO. 349/ 0 RN/L = 7.05

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.956	-7.800	.00230	-.51880	.20560	.00000	.40070	-.20570
1.956	-5.180	.00280	-.38050	.14870	.00000	.39340	-.18620
1.956	-2.810	.00340	-.22060	.09620	.00000	.38840	-.19130
1.956	-.460	.00410	-.08460	.04720	.00000	.38500	-.19200
1.956	1.880	.00490	.05160	-.00410	.00000	.38550	-.19930
1.956	4.200	.00510	.18680	-.06140	.00000	.38140	-.20220
1.956	6.560	.00540	.32720	-.11830	.00000	.37430	-.20000
1.956	-.440	.00410	-.07900	.04530	.00000	.37880	-.19080

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1A71 TABULATED SOURCE DATA

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MSFC TW7810 (1A-71) 77-0.74-TS

(RIK111) (18 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 1/ 0 RM/L = 4.94

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.999	-6.830	.01260	-.48220	.19600	.00000	.28100	-.29860
.999	-4.690	.01260	-.35470	.14600	.00000	.27830	-.28800
.999	-2.550	.01210	-.24280	.10270	.00000	.27560	-.28800
.999	-.420	.01190	-.12140	.05550	.00000	.27340	-.28610
.999	1.710	.01160	.00340	.01550	.00000	.26840	-.27950
.999	3.850	.01130	.11940	-.02330	.00000	.26160	-.26910
.999	6.010	.01120	.24310	-.06580	.00000	.25220	-.27380
.999	-.430	.01190	-.12660	.05930	.00000	.27390	-.28520

RUN NO. 2/ 1 RM/L = 5.95

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.798	-6.990	.01320	-.48290	.19390	.00000	.29980	-.32030
.798	-4.780	.01300	-.36560	.13790	.00000	.29990	-.31280
.798	-2.560	.01230	-.22960	.08750	.00000	.29500	-.29810
.798	-.370	.01210	-.10610	.03940	.00000	.29350	-.29530
.798	1.870	.01170	.03600	-.00850	.00000	.28860	-.29350
.798	4.120	.01170	.16430	-.04920	.00000	.28380	-.29350
.798	6.340	.01130	.29570	-.09430	.00000	.27510	-.29750
.798	-.360	.01210	-.10470	.03960	.00000	.29450	-.29650

RUN NO. 3/ 1 RM/L = 6.30

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.900	-7.120	.01410	-.50590	.19740	.00000	.33780	-.35160
.900	-4.810	.01370	-.35110	.13130	.00000	.33530	-.32980
.900	-2.610	.01310	-.20230	.06460	.00000	.33040	-.31590
.900	-.370	.01260	-.06050	.00390	.00000	.32470	-.30120
.900	1.860	.01260	.08460	-.05620	.00000	.31930	-.30650
.900	4.120	.01250	.22070	-.10600	.00000	.31920	-.31610
.900	6.420	.01230	.34380	-.13730	.00000	.31580	-.32780
.900	-.360	.01340	-.05100	.00050	.00000	.33690	-.32550

PARAMETRIC DATA
 BETA = .000 ORBINC = .000
 FLIPOR = .000

RUN NO. 4/ 0 RN/L = 6.51

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.994	-7.140	.01780	-.54680	.25210	.00000	.46150	-.44980
.994	-4.810	.01740	-.38500	.18630	.00000	.45840	-.43320
.994	-2.520	.01690	-.23580	.12590	.00000	.45500	-.41560
.994	-.280	.01670	-.09600	.06410	.00000	.46350	-.41780
.994	1.980	.01660	.05750	-.00490	.00000	.45140	-.41210
.994	4.220	.01650	.20740	-.07600	.00000	.45020	-.42450
.994	6.520	.01600	.36370	-.14250	.00000	.43260	-.42130
.994	-.280	.01680	-.08910	.05810	.00000	.45690	-.41430

RUN NO. 5/ 0 RN/L = 6.59

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.046	-7.200	.01750	-.55250	.25070	.00000	.48140	-.45850
1.046	-4.850	.01720	-.39100	.18780	.00000	.47830	-.44320
1.046	-2.540	.01660	-.24190	.13050	.00000	.47510	-.42350
1.046	-.280	.01640	-.10040	.06960	.00000	.47400	-.41540
1.046	2.010	.01580	.05390	.00410	.00000	.46610	-.40030
1.046	4.280	.01640	.19740	-.06260	.00000	.46350	-.41820
1.046	6.620	.01590	.35570	-.12130	.00000	.45380	-.40930
1.046	-.270	.01640	-.09510	.06680	.00000	.47490	-.41680

RUN NO. 6/ 0 RN/L = 6.65

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.104	-7.250	.01580	-.54820	.24620	.00000	.47680	-.42360
1.104	-4.870	.01620	-.39100	.18810	.00000	.48210	-.42060
1.104	-2.550	.01560	-.24070	.13020	.00000	.47640	-.39780
1.104	-.270	.01520	-.09600	.06870	.00000	.47590	-.38380
1.104	2.020	.01520	.05430	.00620	.00000	.46890	-.36080
1.104	4.300	.01460	.19110	-.06040	.00000	.45780	-.37390
1.104	6.660	.01470	.35920	-.11990	.00000	.45120	-.37540
1.104	-.260	.01520	-.09080	.06590	.00000	.47850	-.38410

IA71 TABULATED SOURCE DATA

(RIK111) (18 APR 75)

MBFC TMT810 (1A-71) 77-0,74-75

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 7/ 0 RM/L = 6.89

MACH	ALPHA	CMBF	CNU	CLMU	CABF	CA	CPB2
1.252	-7.380	.01700	-.53860	.21990	.00000	-.8130	-.40150
1.252	-4.950	.01670	-.35590	.14820	.00000	.47990	-.39520
1.252	-2.580	.01620	-.19160	.08570	.00000	.48160	-.38280
1.252	-.220	.01590	-.03910	.03010	.00000	.48110	-.37290
1.252	2.100	.01580	.10460	-.02940	.00000	.47750	-.36860
1.252	4.420	.01620	.24340	-.08130	.00000	.47820	-.36420
1.252	6.770	.01680	.39330	-.13700	.00000	.47600	-.39720
1.252	-.200	.01590	-.03040	.02610	.00000	.48080	-.37200

RUN NO. 20/ 0 RM/L = 6.93

MACH	ALPHA	CMBF	CNU	CLMU	CABF	CA	CPB2
1.461	-7.430	.01400	-.54430	.21950	.00000	.46240	-.32260
1.461	-5.000	.01310	-.38730	.15150	.00000	.45590	-.30600
1.461	-2.620	.01270	-.20610	.09040	.00000	.45480	-.30270
1.461	-.260	.01250	-.05230	.03330	.00000	.45310	-.29970
1.461	2.080	.01250	.09250	-.02010	.00000	.45050	-.29660
1.461	4.390	.01240	.22740	-.07240	.00000	.44940	-.30020
1.461	6.750	.01270	.36670	-.12440	.00000	.44720	-.30610
1.461	-.240	.01250	-.04960	.03420	.00000	.45060	-.29600

RUN NO. 21/ 1 RM/L = 7.05

MACH	ALPHA	CMBF	CNU	CLMU	CABF	CA	CPB2
1.958	-7.450	.00970	-.50210	.19600	.00000	.38990	-.21600
1.958	-5.060	.00940	-.35060	.14120	.00000	.38400	-.20430
1.958	-2.680	.00960	-.21590	.09390	.00000	.37990	-.20710
1.958	-.340	.01000	-.08700	.04880	.00000	.38050	-.21070
1.958	2.000	.01030	.04450	.00120	.00000	.37580	-.21440
1.958	4.320	.01030	.18120	-.07540	.00000	.38240	-.21310
1.958	6.720	.01090	.33690	-.12090	.00000	.39050	-.21390
1.958	-.330	.01000	-.08260	.04700	.00000	.37950	-.21170

IA71 TABULATED SOURCE DATA

MSFC TWT610 (IA-71) 77-0.74-TS (RIK112) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 38/ 0 RN/L = 8.31

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.899	-7.130	.01340	-.47130	.16430	.00000	.32500	-.35720
.899	-4.840	.01330	-.32040	.10790	.00000	.32520	-.34470
.899	-2.620	.01280	-.18230	.04330	.00000	.31980	-.32070
.899	-.380	.01290	-.04580	-.01010	.00000	.32520	-.32150
.899	1.860	.01240	.09720	-.06780	.00000	.31720	-.31680
.899	4.110	.01240	.22030	-.10730	.00000	.31240	-.32460
.899	6.390	.01250	.35180	-.14570	.00000	.31420	-.34660
.899	-.380	.01300	-.04710	-.00850	.00000	.32830	-.32780

RUN NO. 67/ 0 RN/L = 8.37

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.952	-7.160	.01400	-.48240	.17400	.00000	.36610	-.38840
.952	-4.860	.01360	-.33590	.12230	.00000	.36460	-.37350
.952	-2.560	.01360	-.19740	.07350	.00000	.36370	-.36020
.952	-.320	.01330	-.05680	.01260	.00000	.35970	-.34910
.952	1.940	.01310	.08600	-.04430	.00000	.35520	-.33950
.952	4.160	.01300	.22420	-.10780	.00000	.34930	-.34710
.952	6.500	.01280	.36190	-.14630	.00000	.34900	-.35640
.952	-.300	.01310	-.05300	.01280	.00000	.36030	-.34500

RUN NO. 39/ 0 RN/L = 8.62

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.046	-7.250	.01700	-.52990	.22190	.00000	.46880	-.46850
1.046	-4.900	.01640	-.37120	.16200	.00000	.46540	-.45530
1.046	-2.590	.01610	-.22450	.10780	.00000	.46280	-.43940
1.046	-.300	.01510	-.08170	.04670	.00000	.45960	-.41320
1.046	1.980	.01550	.08350	-.01220	.00000	.45550	-.41270
1.046	4.230	.01500	.20790	-.07970	.00000	.44970	-.41240
1.046	6.550	.01560	.35530	-.13130	.00000	.44540	-.43240
1.046	-.300	.01570	-.06340	.04620	.00000	.46200	-.42720

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IAT1 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 77-0.74-15 (RIK112) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 66/ 0 RN/L = 6.84

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.151	-7.350	.01450	-.54300	.21710	.00000	.46290	-.43800
1.151	-4.970	.01420	-.37630	.15630	.00000	.45700	-.41410
1.151	-2.590	.01400	-.22150	.10170	.00000	.45340	-.39640
1.151	-.260	.01390	-.07360	.04840	.00000	.45250	-.39760
1.151	2.030	.01410	.07520	-.01690	.00000	.45110	-.39900
1.151	4.320	.01450	.22370	-.08170	.00000	.45270	-.40190
1.151	6.680	.01440	.37630	-.13940	.00000	.44860	-.40130
1.151	-.260	.01380	-.07060	.04440	.00000	.45300	-.39450

RUN NO. 68/ 0 RN/L = 6.67

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.199	-7.390	.01570	-.53130	.20300	.00000	.47220	-.41940
1.199	-4.970	.01530	-.34750	.13070	.00000	.47030	-.40460
1.199	-2.600	.01480	-.17880	.06400	.00000	.47070	-.38450
1.199	-.240	.01470	-.02150	.00540	.00000	.47020	-.37730
1.199	2.070	.01440	.12140	-.05010	.00000	.46630	-.36760
1.199	4.380	.01460	.26180	-.10510	.00000	.46560	-.38380
1.199	6.750	.01460	.40960	-.15840	.00000	.46040	-.38280
1.199	-.230	.01450	-.02050	.00550	.00000	.46950	-.36600

RUN NO. 40/ 0

RN/L = 6.72

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.250	-7.420	.01590	-.52190	.19710	.00000	.46780	-.40870
1.250	-5.010	.01600	-.33940	.12590	.00000	.46730	-.40140
1.250	-2.610	.01570	-.17770	.06940	.00000	.46810	-.38570
1.250	-.250	.01560	-.02710	.01170	.00000	.47010	-.38110
1.250	2.070	.01550	.11700	-.04330	.00000	.46720	-.37170
1.250	4.370	.01560	.25510	-.09940	.00000	.46560	-.38250
1.250	6.720	.01610	.40020	-.15150	.00000	.46340	-.39300
1.250	-.240	.01490	-.01620	.00460	.00000	.46540	-.36470

MSFC TWT610 (IA-71) 77-0, 74-75 (RIK113) (18 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 61/ 0 RN/L = 6.28

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
.899	-6.660	.01390	-.06140	.00080	.00000	.33180	-.39460
.899	-4.470	.01300	-.05890	-.00020	.00000	.32780	-.38420
.899	-2.310	.01220	-.06160	.00140	.00000	.31880	-.34270
.899	-.160	.01230	-.08790	.00550	.00000	.31990	-.37570
.899	1.970	.01200	-.06260	.00240	.00000	.31730	-.31210
.899	4.130	.01230	-.06130	.00040	.00000	.31910	-.29460
.899	6.280	.01340	-.04880	-.00590	.00000	.33040	-.28630
.899	-.160	.01240	-.07360	.00850	.00000	.31490	-.34340

RUN NO. 62/ 0 RN/L = 6.38

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
.947	-6.690	.01470	-.06290	.00520	.00000	.36550	-.41990
.947	-4.480	.01410	-.06560	.01390	.00000	.36310	-.39690
.947	-2.310	.01350	-.07350	.02210	.00000	.35910	-.38040
.947	-.150	.01350	-.08720	.03090	.00000	.35590	-.36820
.947	1.990	.01290	-.07720	.02520	.00000	.35360	-.34910
.947	4.140	.01330	-.07170	.02000	.00000	.35660	-.32270
.947	6.330	.01420	-.06450	.01520	.00000	.36470	-.29790
.947	-.150	.01350	-.08510	.02940	.00000	.35520	-.36840

RUN NO. 63/ 0 RN/L = 6.47

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.004	-6.710	.01860	-.06510	.02980	.00000	.46030	-.50920
1.004	-4.510	.01790	-.07410	.04100	.00000	.45750	-.49930
1.004	-2.320	.01690	-.07740	.04760	.00000	.45930	-.49150
1.004	-.160	.01710	-.08820	.05360	.00000	.45370	-.48230
1.004	1.990	.01630	-.08550	.05270	.00000	.45530	-.46200
1.004	4.150	.01710	-.08570	.05350	.00000	.45980	-.43960
1.004	6.330	.01740	-.07760	.04620	.00000	.46160	-.41430
1.004	-.160	.01660	-.09070	.05320	.00000	.44770	-.47470

1A71 TABULATED SOURCE DATA

(IRIK113) (18 APR 75)

HSCFC TW1610 (1A-71) 77-0.74-15

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 107/ 0 RN/L = 6.55

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.050	-6.780	.01840	-.05920	.02590	.00000	.46330	-.46880
1.050	-4.540	.01840	-.06900	.03740	.00000	.46330	-.47170
1.050	-2.350	.01520	-.07220	.04310	.00000	.45780	-.45720
1.050	-.180	.01540	-.08480	.05050	.00000	.45460	-.45600
1.050	2.010	.01430	-.07620	.05700	.00000	.45440	-.42520
1.050	4.170	.01540	-.07630	.04720	.00000	.46000	-.41660
1.050	6.360	.01550	-.06740	.03870	.00000	.46170	-.38760
1.050	-.160	.01530	-.08490	.05000	.00000	.45510	-.45710

RUN NO. 64/ 0 RN/L = 6.60

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.100	-6.780	.01950	-.05370	.02350	.00000	.46480	-.44770
1.100	-4.540	.01420	-.06140	.03230	.00000	.46830	-.42400
1.100	-2.340	.01390	-.06680	.03970	.00000	.45490	-.41680
1.100	-.150	.01380	-.07740	.04680	.00000	.45180	-.40790
1.100	2.020	.01360	-.07690	.04900	.00000	.45490	-.39010
1.100	4.190	.01370	-.07210	.04470	.00000	.45610	-.36660
1.100	6.390	.01430	-.06340	.03740	.00000	.45870	-.34450
1.100	-.150	.01390	-.08060	.04810	.00000	.45300	-.40830

RUN NO. 65/ 0 RN/L = 6.64

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.151	-6.790	.01510	-.05840	.01940	.00000	.46470	-.42630
1.151	-4.560	.01430	-.06770	.02950	.00000	.45730	-.41700
1.151	-2.340	.01370	-.07370	.03870	.00000	.45240	-.41230
1.151	-.150	.01380	-.08200	.04770	.00000	.44940	-.41300
1.151	2.020	.01360	-.07940	.04560	.00000	.45590	-.40230
1.151	4.210	.01440	-.07130	.03960	.00000	.46400	-.39370
1.151	6.410	.01510	-.06500	.03310	.00000	.46760	-.37770
1.151	-.150	.01360	-.08200	.04750	.00000	.44950	-.40890

IA71 TABULATED SOURCE DATA

(RIK113) (16 APR 75)

MSFC TWT810 (IA-71) 77-0.74-TS

PARAMETRIC DATA

 ALPHA = .000 ORBINC = .000
 FLIPOR = .000

RUN NO. 80/ 0 RN/L = 8.67

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.202	-6.850	.01580	-.03480	.00010	.00000	.48280	-.40870
1.202	-4.580	.01510	-.03770	.00540	.00000	.47700	-.39250
1.202	-2.360	.01470	-.03930	.01150	.00000	.47210	-.38900
1.202	-.150	.01460	-.04300	.01760	.00000	.46810	-.38730
1.202	2.040	.01470	-.04240	.01560	.00000	.47220	-.38280
1.202	4.270	.01480	-.04460	.01410	.00000	.47440	-.36490
1.202	6.500	.01550	-.04530	.01290	.00000	.47890	-.35810
1.202	-.150	.01430	-.04880	.02220	.00000	.46670	-.38320

RUN NO. 59/ 0 RN/L = 8.67

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.253	-6.840	.01490	-.05440	.01650	.00000	.47280	-.39590
1.253	-4.570	.01450	-.05030	.01770	.00000	.46600	-.38500
1.253	-2.350	.01400	-.05100	.02170	.00000	.46180	-.38190
1.253	-.140	.01400	-.05580	.02610	.00000	.45650	-.37950
1.253	2.040	.01410	-.05700	.02760	.00000	.46310	-.37700
1.253	4.270	.01450	-.05910	.02750	.00000	.46760	-.35920
1.253	6.510	.01500	-.06050	.02690	.00000	.47010	-.34800
1.253	-.140	.01390	-.05850	.02680	.00000	.45690	-.37880

RUN NO. 98/ 0 RN/L = 8.49

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.458	-6.840	.01260	-.04270	.00740	.00000	.44900	-.31160
1.458	-4.570	.01220	-.04320	.01020	.00000	.44340	-.30080
1.458	-2.350	.01170	-.04170	.01170	.00000	.44020	-.30060
1.458	-.130	.01160	-.04170	.01390	.00000	.44080	-.30030
1.458	2.080	.01150	-.04150	.01350	.00000	.44120	-.29700
1.458	4.270	.01160	-.04160	.01400	.00000	.44270	-.28580
1.458	6.530	.01210	-.04670	.01560	.00000	.44440	-.27170
1.458	-.120	.01120	-.04830	.01650	.00000	.43680	-.29060

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IA71 TABULATED SOURCE DATA

(RIK114) (16 APR 75)

MSFC TMT610 (1A-71) 77-0.74-TS Z10

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO.	13/ 0	RM/L = 5.97	CA	CABF	CLMU	CNU	CNEF	ALPHA
MACH								
.906			.35440	.00000	.33200	-.66270	.01400	-7.020
.900			.35520	.00000	.27840	-.53490	.01350	-4.820
.900			.35130	.00000	.22740	-.39540	.01280	-2.590
.900			.34820	.00000	.17920	-.27220	.01260	-.390
.900			.34040	.00000	.13490	-.14450	.01230	1.810
.900			.33540	.00000	.09430	-.01540	.01240	4.060
.900			.32330	.00000	.03800	.13260	.01210	6.300
.900			.34810	.00000	.17770	-.26960	.01250	-.390

RUN NO.	12/ 0	RM/L = 6.31	CA	CABF	CLMU	CNU	CNEF	ALPHA
MACH								
.906			.39460	.00000	.33150	-.66430	.01420	-7.150
.906			.39270	.00000	.27630	-.51430	.01390	-4.850
.906			.39210	.00000	.22080	-.38260	.01370	-2.630
.906			.38910	.00000	.16640	-.25000	.01360	-.400
.906			.37350	.00000	.11140	-.11580	.01320	1.820
.906			.36400	.00000	.07670	.02470	.0120	4.100
.906			.35910	.00000	-.00030	.17420	.01330	6.370
.906			.38110	.00000	.16360	-.24500	.01340	-.390

RUN NO.	11/ 0	RM/L = 6.52	CA	CABF	CLMU	CNU	CNEF	ALPHA
MACH								
.997			.53190	.00000	.36080	-.67520	.01900	-7.160
.997			.52900	.00000	.29950	-.51930	.01840	-4.840
.997			.52380	.00000	.24620	-.38190	.01780	-2.570
.997			.52090	.00000	.18950	-.24940	.01770	-.330
.997			.51020	.00000	.13160	-.11150	.01750	1.920
.997			.50670	.00000	.06080	.04000	.01760	4.170
.997			.48710	.00000	-.00620	.20110	.01730	6.490
.997			.51930	.00000	.16810	-.24840	.01770	-.130

IA71 TABULATED SOURCE DATA

MSFC INT610 (IA-71) 77-0.74-TS Z10 (RTK114) (18 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
 FLIPOR = 40.000

RUN NO. 10/ 0 RN/L = 6.59

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.048	-7.230	.01830	-.68500	.34450	.00000	.54810	-.46160
1.048	-4.980	.01760	-.50970	.26690	.00000	.54300	-.44680
1.048	-2.580	.01700	-.37340	.23770	.00000	.53800	-.43590
1.048	-.320	.01680	-.24340	.18800	.00000	.53130	-.42660
1.048	1.920	.01640	-.10120	.12770	.00000	.51830	-.41060
1.048	4.200	.01690	.04400	.06180	.00000	.51110	-.42670
1.048	6.580	.01610	.21280	-.00390	.00000	.49440	-.41410
1.048	-.310	.01690	-.23960	.18480	.00000	.53230	-.42760

RUN NO. 14/ 0 RN/L = 6.64

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.105	-7.260	.01620	-.65680	.33970	.00000	.54170	-.40730
1.105	-4.910	.01570	-.50510	.28230	.00000	.53340	-.39160
1.105	-2.590	.01500	-.35920	.22750	.00000	.52280	-.37730
1.105	-.300	.01480	-.22080	.17140	.00000	.51690	-.37040
1.105	1.990	.01510	-.07370	.11190	.00000	.50910	-.37210
1.105	4.300	.01540	.08240	.04190	.00000	.50440	-.36640
1.105	6.640	.01480	.24480	-.02280	.00000	.48530	-.37870
1.105	-.300	.01540	-.22230	.17340	.00000	.52490	-.37640

RUN NO. 15/ 0 RN/L = 6.70

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.250	-7.390	.01790	-.62760	.29750	.00000	.54010	-.40050
1.250	-4.960	.01740	-.43400	.21760	.00000	.52890	-.39040
1.250	-2.580	.01710	-.26270	.14780	.00000	.52160	-.37990
1.250	-.210	.01680	-.10030	.08550	.00000	.51500	-.36910
1.250	2.100	.01680	.04330	.03010	.00000	.50830	-.36720
1.250	4.420	.01710	.18080	-.02560	.00000	.50720	-.36620
1.250	6.760	.01760	.33080	-.08250	.00000	.50140	-.40130
1.250	-.200	.01690	-.09350	.08290	.00000	.51470	-.37070

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IA71 TABULATED SOURCE DATA

(RIK114) (18 APR 75)

MSFC TMT610 (IA-71) 77-0.7N-TS 210

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 19/ 0 RM/L = 6.31

MACH	ALPHA	CMSF	CNU	CLMU	CASF	CA	CPB2
1.458	-7.480	.01370	-.60480	.87440	.00000	.40870	-.31480
1.458	-8.000	.01340	-.48280	.80180	.00000	.40880	-.28800
1.458	-8.620	.01380	-.38080	.73880	.00000	.40710	-.26260
1.458	-2.250	.01350	-.10420	.08050	.00000	.40340	-.30480
1.458	2.080	.01360	.03880	.02840	.00000	.47910	-.30310
1.458	4.390	.01340	.18020	-.02960	.00000	.47410	-.30260
1.458	6.750	.01360	.32270	-.08320	.00000	.46910	-.30530
1.458	-.230	.01340	-.10050	.08110	.00000	.48000	-.30260

RUN NO. 22/ 0 RM/L = 7.03

MACH	ALPHA	CMSF	CNU	CLMU	CASF	CA	CPB2
1.957	-7.490	.01080	-.54160	.22890	.00000	.42680	-.21880
1.957	-5.020	.01060	-.37990	.17050	.00000	.40400	-.20540
1.957	-2.660	.01040	-.24250	.12080	.00000	.39730	-.20730
1.957	-.320	.01050	-.11440	.07610	.00000	.39380	-.21280
1.957	2.010	.01050	.01790	.02610	.00000	.38840	-.21340
1.957	4.320	.01070	.14980	-.02750	.00000	.39390	-.21350
1.957	6.660	.01100	.29680	-.09010	.00000	.39530	-.21260
1.957	-.310	.01030	-.11160	.07590	.00000	.39140	-.20950

(RIK115) (18 APR 75)

MSFC TMT610 (IA-71) 77-0.7N-TS 210

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 9/ 0 RM/L = 6.58

MACH	BETA	CMSF	CNU	CLMU	CASF	CA	CPB2
1.048	-6.440	.01670	-.19240	.14520	.00000	.52840	-.47680
1.048	-4.330	.01640	-.20880	.18230	.00000	.53110	-.46880
1.048	-2.250	.01620	-.22000	.17360	.00000	.53180	-.46170
1.048	-.180	.01600	-.22930	.17900	.00000	.53110	-.44830
1.048	1.670	.01650	-.22560	.17630	.00000	.52990	-.43750
1.048	3.940	.01600	-.21980	.17120	.00000	.52690	-.40170
1.048	6.030	.01710	-.21530	.16370	.00000	.52980	-.39500
1.048	-.180	.01580	-.22880	.17850	.00000	.53050	-.44440

(RIK116) (16 APR 75)

IA71 TABULATED SOURCE DATA

MSFC TWT610 (IA-71) 77-0.74-TS Z10

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 32/ 0 RN/L = 5.91

MACH	ALPHA	CNEF	CNU	CLMU	CABF	CA	CPB2
.797	-7.150	.01370	-.61200	.27910	.00000	.32020	-.35100
.797	-4.850	.01320	-.47360	.22040	.00000	.31640	-.32910
.797	-2.600	.01300	-.33950	.17150	.00000	.31790	-.34060
.797	-.400	.01290	-.20440	.11710	.00000	.31650	-.33370
.797	1.820	.01290	-.07040	.06970	.00000	.31080	-.32900
.797	4.060	.01290	.05950	.02310	.00000	.30690	-.33530
.797	6.280	.01280	.20620	-.02670	.00000	.29660	-.34660
.797	-.400	.01300	-.20590	.11750	.00000	.31790	-.33240

RUN NO. 31/ 0 RN/L = 6.27

MACH	ALPHA	CNEF	CNU	CLMU	CABF	CA	CPB2
.904	-7.160	.01320	-.60730	.27710	.00000	.35140	-.36100
.904	-4.860	.01290	-.45940	.22430	.00000	.34970	-.33770
.904	-2.650	.01280	-.32870	.16710	.00000	.34820	-.33940
.904	-.410	.01260	-.19900	.11690	.00000	.34610	-.34350
.904	1.820	.01250	-.05980	.06020	.00000	.33700	-.34460
.904	4.080	.01240	.08500	.00350	.00000	.33230	-.35530
.904	6.380	.01270	.23510	-.05240	.00000	.33300	-.36810
.904	-.410	.01300	-.19660	.11750	.00000	.35460	-.35530

RUN NO. 17/ 0 RN/L = 6.51

MACH	ALPHA	CNEF	CNU	CLMU	CABF	CA	CPB2
1.004	-7.150	.01980	-.61990	.31350	.00000	.51740	-.51040
1.004	-4.850	.01980	-.45920	.24910	.00000	.52290	-.50760
1.004	-2.550	.01930	-.32120	.19770	.00000	.51820	-.49780
1.004	-.300	.01900	-.18270	.13740	.00000	.51340	-.48780
1.004	1.960	.01880	-.03320	.07270	.00000	.50070	-.47820
1.004	4.210	.01860	.11910	-.00170	.00000	.49180	-.48470
1.004	6.510	.01840	.26100	-.06840	.00000	.47990	-.46590
1.004	-.300	.01890	-.18160	.13690	.00000	.51290	-.48530

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1A71 TABULATED SOURCE DATA

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MSFC TW1810 (1A-71) 77-0.74-TS Z10

(RIK116) (18 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 30/ 0 RV/L = 6.57

MACH	ALPHA	CHEF	CNU	CLMU	CASF	CA	CPB2
1.049	-7.270	.01740	-.60180	.27940	.00000	.50600	-.46110
1.049	-4.930	.01700	-.44960	.22480	.00000	.50010	-.44620
1.049	-2.630	.01670	-.30960	.17560	.00000	.49620	-.43740
1.049	-.340	.01650	-.17950	.12420	.00000	.49130	-.42990
1.049	1.940	.01670	-.03580	.06680	.00000	.48240	-.42670
1.049	4.230	.01590	.12190	-.00670	.00000	.47070	-.41450
1.049	6.560	.01620	.27720	-.06400	.00000	.46140	-.42690
1.049	-.330	.01680	-.17690	.123	.00000	.49200	-.43570

RUN NO. 29/ 0 RV/L = 6.63

MACH	ALPHA	CHEF	CNU	CLMU	CASF	CA	CPB2
1.107	-7.300	.01570	-.50970	.27810	.00000	.50200	-.42050
1.107	-4.950	.01540	-.43910	.21830	.00000	.49360	-.40180
1.107	-2.640	.01510	-.29850	.16650	.00000	.48510	-.38810
1.107	-.330	.01470	-.16150	.11190	.00000	.48040	-.38190
1.107	1.960	.01470	-.01540	.05340	.00000	.47060	-.37420
1.107	4.250	.01490	.13700	-.01270	.00000	.46700	-.38620
1.107	6.610	.01460	.29390	-.07380	.00000	.45600	-.38450
1.107	-.320	.01480	-.15770	.11050	.00000	.48210	-.38260

RUN NO. 18/ 0 RV/L = 6.69

MACH	ALPHA	CHEF	CNU	CLMU	CASF	CA	CPB2
1.260	-7.400	.01490	-.57190	.24570	.00000	.48770	-.38000
1.260	-4.990	.01460	-.38810	.17210	.00000	.48170	-.37480
1.260	-2.600	.01430	-.22000	.10720	.00000	.47670	-.36300
1.260	-.230	.01410	-.06590	.05130	.00000	.47340	-.35160
1.260	2.080	.01430	.07380	-.00110	.00000	.47230	-.34770
1.260	4.380	.01470	.21110	-.05690	.00000	.47040	-.36360
1.260	6.730	.01500	.35900	-.11150	.00000	.46600	-.37370
1.260	-.210	.01410	-.06020	.04990	.00000	.47640	-.35090

IA71 TABULATED SOURCE DATA

(RIK116) (16 APR 75)

MSFC TWT610 (IA-71) 77-0.7N-TS Z10

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 18/ 0 RN/L = 6.49

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.474	-7.420	.01310	-.56980	.24220	.00000	.47040	-.31220
1.474	-4.990	.01270	-.38800	.17080	.00000	.46240	-.29650
1.474	-2.620	.01270	-.22810	.11000	.00000	.46060	-.29800
1.474	-.260	.01270	-.07510	.05330	.00000	.45860	-.29590
1.474	2.080	.01290	.07190	-.00190	.00000	.45690	-.29610
1.474	4.390	.01290	.21040	-.05730	.00000	.45590	-.30010
1.474	6.750	.01310	.35190	-.10940	.00000	.45230	-.30130
1.474	-.240	.01270	-.06840	.05120	.00000	.45820	-.29540

RUN NO. 28/ 0 RN/L = 7.04

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.962	-7.470	.01030	-.52010	.21000	.00000	.40320	-.21720
1.962	-5.050	.01000	-.36810	.15530	.00000	.39620	-.20580
1.962	-2.690	.01000	-.23060	.10610	.00000	.38980	-.20710
1.962	-.340	.01020	-.10080	.06060	.00000	.38770	-.21220
1.962	2.000	.01030	.03270	.01340	.00000	.38030	-.21180
1.962	4.320	.01050	.16910	-.04450	.00000	.39000	-.21340
1.962	6.670	.01050	.31280	-.10560	.00000	.38610	-.20870
1.962	-.310	.01000	-.09380	.06000	.00000	.37900	-.20780

(RIK117) (16 APR 75)

MSFC TWT610 (IA-71) 77-0.7N-TS Z10

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 73/ 0 RN/L = 6.22

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
.897	-6.850	.01280	-.14520	.07740	.00000	.35150	-.38550
.897	-4.460	.01230	-.15640	.08540	.00000	.34720	-.37400
.897	-2.300	.01180	-.16150	.09030	.00000	.34180	-.36810
.897	-.150	.01150	-.16940	.09560	.00000	.33800	-.35360
.897	1.980	.01130	-.15690	.08900	.00000	.33880	-.33370
.897	4.120	.01190	-.15750	.08780	.00000	.34310	-.32200
.897	6.290	.01260	-.15210	.08260	.00000	.34560	-.30680
.897	-.150	.01150	-.16820	.09650	.00000	.34050	-.35420

IA71 TABULATED SOURCE DATA

(RIK117) (16 APR 75)

MSFC TWB10 (IA-71) 77-0.74-TS Z10

PARAMETRIC DATA

ALPHA = .00C ORBINC = .000
FLIPDR = 20.000

RUN NO. 72/ 0 RV/L = 6.5%

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CP82
1.0%	-6.810	.01820	-.10470	.08880	.00000	.48880	-.48880
1.0%	-4.370	.01580	-.11330	.07770	.00000	.48940	-.48170
1.0%	-2.190	.01510	-.12230	.08880	.00000	.48820	-.48230
1.0%	-.010	.01510	-.12950	.09130	.00000	.48350	-.44230
1.0%	2.140	.01470	-.12820	.09130	.00000	.48540	-.42730
1.0%	4.330	.01460	-.12310	.08740	.00000	.48520	-.39860
1.0%	6.510	.01560	-.11840	.08270	.00000	.48710	-.38850
1.0%	-.010	.01430	-.12610	.08890	.00000	.47970	-.42530

RUN NO. 74/ 0 RV/L = 6.5%

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CP82
1.2%	-6.840	.01580	-.06880	.03520	.00000	.48830	-.41510
1.2%	-4.370	.01580	-.08470	.03730	.00000	.49020	-.40100
1.2%	-2.350	.01520	-.06650	.04050	.00000	.48570	-.39850
1.2%	-.150	.01540	-.06860	.04250	.00000	.48580	-.39540
1.2%	2.060	.01550	-.06860	.04530	.00000	.48880	-.39160
1.2%	4.270	.01570	-.06990	.04380	.00000	.48890	-.38880
1.2%	6.510	.01570	-.07450	.04320	.00000	.48670	-.37580
1.2%	-.140	.01480	-.06610	.04040	.00000	.47630	-.38590

RUN NO. 97/ 0 RV/L = 6.4%

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CP82
1.456	-6.840	.01270	-.06070	.02290	.00000	.42530	-.30640
1.456	-4.370	.01210	-.06010	.02610	.00000	.45020	-.29680
1.456	-2.350	.01190	-.05970	.02820	.00000	.44680	-.29780
1.456	-.130	.01200	-.06060	.03030	.00000	.44860	-.29860
1.456	2.060	.01200	-.05770	.03020	.00000	.44960	-.29680
1.456	4.270	.01190	-.06060	.03070	.00000	.44960	-.28380
1.456	6.540	.01250	-.06370	.03320	.00000	.45240	-.27350
1.456	-.120	.01170	-.06440	.03130	.00000	.44510	-.29070

IA71 TABULATED SOURCE DATA

(RTK1118) (16 APR 75)

MSFC THT610 (1A-71) 77-0.74-TS 210

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO.	BT/ 0	RM/L = 6.47	CMU	CLMU	CABF	CA	CP82
MACH	BETA	CMBF	CMU	CLMU	CABF	CA	CP82
.998	-6.000	.01500	-.09870	.05420	.00000	.44870	-.44910
.999	-4.460	.01500	-.10990	.06390	.00000	.44100	-.43080
.995	-2.310	.01400	-.10900	.06390	.00000	.43620	-.42010
.995	-.150	.01400	-.11850	.07130	.00000	.43820	-.41190
.995	1.990	.01310	-.11230	.06700	.00000	.43030	-.39440
.995	4.140	.01440	-.11440	.07430	.00000	.45140	-.39480
.945	6.320	.01490	-.10860	.06740	.00000	.44420	-.34810
.995	-.160	.01410	-.11890	.07150	.00000	.43640	-.41050

RUN NO.	58/ 0	RM/L = 6.56	CMU	CLMU	CABF	CA	CP82
MACH	BETA	CMBF	CMU	CLMU	CABF	CA	CP82
1.051	-6.730	.01570	-.09870	.05660	.00000	.47010	-.47570
1.051	-4.510	.01480	-.10720	.06670	.00000	.46860	-.46370
1.051	-2.330	.01440	-.11110	.07260	.00000	.46740	-.45330
1.051	-.160	.01430	-.12010	.07860	.00000	.46340	-.43570
1.051	1.990	.01370	-.11570	.07630	.00000	.46560	-.41930
1.051	4.160	.01350	-.11340	.07400	.00000	.46710	-.38560
1.051	6.360	.01450	-.10860	.06880	.00000	.46880	-.36770
1.051	-.140	.01410	-.12200	.07910	.00000	.46350	-.43100

RUN NO.	58/ 0	RM/L = 6.67	CMU	CLMU	CABF	CA	CP82
MACH	BETA	CMBF	CMU	CLMU	CABF	CA	CP82
1.253	-6.940	.01500	-.06980	.02930	.00000	.47690	-.39770
1.253	-4.580	.01460	-.06480	.03150	.00000	.47030	-.38490
1.253	-2.350	.01430	-.06550	.03420	.00000	.46570	-.38200
1.253	-.140	.01430	-.06920	.03870	.00000	.46340	-.37900
1.253	2.050	.01450	-.07050	.04020	.00000	.46760	-.37950
1.253	4.260	.01470	-.07060	.03910	.00000	.47200	-.36370
1.253	6.510	.01520	-.07620	.04000	.00000	.47510	-.35510
1.253	-.120	.01430	-.07020	.03840	.00000	.46200	-.37910

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IA71 TABULATED SOURCE DATA

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MSFC TWT610 (IA-71) 77-0.74-TS Z10

(RIK118) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO. 99/ 0 RN/L = 6.49

MACH	BETA	CNSF	CNU	CLMU	CABF	CA	CPB2
1.460	-6.840	.01260	-.05200	.01440	.00000	.45180	-.31170
1.460	-4.570	.01200	-.05250	.01730	.00000	.44690	-.30120
1.460	-2.350	.01180	-.05210	.01910	.00000	.44360	-.30030
1.460	-.140	.01180	-.05100	.02130	.00000	.44350	-.29870
1.460	2.060	.01180	-.05010	.02160	.00000	.44520	-.29840
1.460	4.270	.01190	-.05180	.02220	.00000	.44630	-.28380
1.460	6.530	.01230	-.05520	.02340	.00000	.44830	-.27290
1.460	-.120	.01160	-.05370	.02330	.00000	.44020	-.29220

MSFC TWT610 (IA-71) 77-0.74-TS Z10

(RIK119) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO. 49/ 0 RN/L = 5.95

MACH	ALPHA	CNSF	CNU	CLMU	CABF	CA	CPB2
.802	-6.990	.01120	-.53150	.21880	.00000	.29780	-.32380
.802	-4.800	.01080	-.40950	.16550	.00000	.29640	-.31880
.802	-2.580	.01040	-.27390	.11660	.00000	.29350	-.31400
.802	-.380	.01020	-.14840	.06800	.00000	.29170	-.31670
.802	1.840	.01000	-.01540	.02050	.00000	.28720	-.31150
.802	4.080	.01000	.12300	-.02440	.00000	.28180	-.31250
.802	6.320	.00990	.25610	-.07220	.00000	.27250	-.31580
.802	-.380	.01010	-.15070	.06950	.00000	.29260	-.31760

RUN NO. 50/ 0 RN/L = 6.28

MACH	ALPHA	CNSF	CNU	CLMU	CABF	CA	CPB2
.903	-7.140	.01280	-.55460	.22970	.00000	.33700	-.35640
.903	-4.820	.01220	-.40000	.17470	.00000	.33190	-.33990
.903	-2.620	.01180	-.27300	.11870	.00000	.33030	-.33550
.903	-.380	.01140	-.13970	.06660	.00000	.32800	-.33180
.903	1.850	.01140	.01050	.00160	.00000	.32750	-.33490
.903	4.100	.01110	.14800	-.05260	.00000	.31890	-.33570
.903	6.410	.01140	.28880	-.09540	.00000	.31670	-.35920
.903	-.370	.01170	-.13540	.06560	.00000	.33810	-.34120

1A71 TABULATED SOURCE DATA

MSFC THT610 (1A-71) 77-0.74-TS 210 (RIK119) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO. 51/ 0 RN/L = 6.40

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.954	-7.180	.01370	-.53870	.21710	.00000	.38070	-.39430
.954	-4.860	.01310	-.38720	.16430	.00000	.37650	-.38080
.954	-2.580	.01300	-.25290	.11830	.00000	.37660	-.37640
.954	-.350	.01280	-.12330	.06500	.00000	.37390	-.37050
.954	1.910	.01270	.02540	.00290	.00000	.36670	-.36040
.954	4.140	.01250	.16130	-.05840	.00000	.35860	-.35880
.954	6.480	.01290	.30910	-.10520	.00000	.36060	-.37730
.954	-.350	.01290	-.12660	.06690	.00000	.37230	-.37590

RUN NO. 54/ 0 RN/L = 6.47

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.997	-7.140	.01570	-.54370	.24310	.00000	.45570	-.40940
.997	-4.820	.01530	-.38930	.18200	.00000	.45320	-.39800
.997	-2.560	.01400	-.26170	.13560	.00000	.44520	-.40430
.997	-.340	.01320	-.13100	.07580	.00000	.43400	-.38920
.997	1.930	.01350	.01500	.01550	.00000	.44090	-.39690
.997	4.170	.01300	.15790	-.05070	.00000	.42300	-.38380
.997	6.490	.01330	.30700	-.10740	.00000	.42250	-.38880
.997	-.330	.01330	-.13010	.07590	.00000	.43580	-.39330

RUN NO. 55/ 0 RN/L = 6.56

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.050	-7.220	.01470	-.55800	.24630	.00000	.47620	-.43620
1.050	-4.870	.01450	-.40400	.18930	.00000	.47310	-.42230
1.050	-2.580	.01430	-.26600	.13870	.00000	.47100	-.41440
1.050	-.310	.01410	-.13270	.08640	.00000	.46540	-.40420
1.050	1.960	.01430	.01030	.02560	.00000	.45770	-.39510
1.050	4.200	.01370	.14970	-.03940	.00000	.44900	-.38160
1.050	6.550	.01400	.30130	-.09420	.00000	.44110	-.39000
1.050	-.310	.01410	-.13500	.08710	.00000	.46720	-.40460

1A71 TABULATED SOURCE DATA

MSFC INT810 (1A-71) 77-0.74-TS 210 (RIK119) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
 FLIPDR = 10.000

RUN NO. 53/ 0 RN/L = 6.61

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.103	-7.280	.01560	-.57090	.25140	.00000	.49620	-.46840
1.103	-4.910	.01560	-.41090	.19330	.00000	.49540	-.45680
1.103	-2.580	.01570	-.26350	.13950	.00000	.49180	-.44280
1.103	-.290	.01570	-.12420	.08380	.00000	.48500	-.43200
1.103	2.010	.01580	.02910	.02000	.00000	.47820	-.42060
1.103	4.290	.01570	.17620	-.04330	.00000	.47270	-.42470
1.103	6.670	.01540	.33950	-.10530	.00000	.46130	-.41670
1.103	-.280	.01560	-.11190	.08180	.00000	.48830	-.42860

RUN NO. 52/ 0 RN/L = 6.64

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.149	-7.410	.01580	-.61610	.26950	.00000	.50040	-.45670
1.149	-4.980	.01600	-.43160	.19850	.00000	.49480	-.44440
1.149	-2.630	.01620	-.26580	.13270	.00000	.48990	-.43190
1.149	-.290	.01570	-.10840	.06980	.00000	.48380	-.41110
1.149	2.010	.01580	.04190	.00820	.00000	.47700	-.40140
1.149	4.320	.01530	.18740	-.05060	.00000	.47440	-.41300
1.149	6.690	.01570	.34920	-.11320	.00000	.46920	-.41350
1.149	-.280	.01580	-.10450	.06060	.00000	.48520	-.41310

RUN NO. 48/ 0 RN/L = 6.68

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.202	-7.410	.01520	-.57550	.23660	.00000	.48590	-.42330
1.202	-4.980	.01510	-.38390	.15950	.00000	.47980	-.40400
1.202	-2.610	.01490	-.21240	.09040	.00000	.47580	-.38500
1.202	-.260	.01450	-.05850	.03180	.00000	.47300	-.37060
1.202	2.040	.01460	.08560	-.02460	.00000	.46900	-.36970
1.202	4.360	.01440	.23020	-.08300	.00000	.46630	-.38080
1.202	6.720	.01500	.37970	-.13750	.00000	.46250	-.39180
1.202	-.250	.01410	-.05420	.03250	.00000	.47070	-.35700

IA71 TABULATED SOURCE DATA

MSFC TWT810 (IA-71) 77-0.74-TS 210 (RIK119) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO. 47/ 0 RN/L = 6.67

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.251	-7.430	.01440	-.57290	.23510	.00000	.47900	-.40250
1.251	-4.990	.01480	-.38440	.16040	.00000	.47370	-.38290
1.251	-2.610	.01480	-.21530	.09450	.00000	.47170	-.36820
1.251	-.250	.01470	-.06080	.03730	.00000	.47120	-.36010
1.251	2.050	.01470	.07990	-.01820	.00000	.46510	-.35310
1.251	4.360	.01490	.22070	-.07590	.00000	.46280	-.37070
1.251	6.710	.01540	.36590	-.13040	.00000	.46010	-.38160
1.251	-.250	.01410	-.05350	.03160	.00000	.46380	-.34610

RUN NO. 100/ 0 RN/L = 6.49

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.460	-7.450	.01180	-.53790	.20570	.00000	.45000	-.30300
1.460	-5.020	.01190	-.35950	.13610	.00000	.44500	-.27910
1.460	-2.640	.01160	-.19840	.07630	.00000	.44440	-.27590
1.460	-.270	.01160	-.04780	.02240	.00000	.44320	-.27580
1.460	2.080	.01160	.09890	-.03060	.00000	.44130	-.27400
1.460	4.390	.01150	.23260	-.08190	.00000	.43910	-.27760
1.460	6.750	.01180	.37460	-.13450	.00000	.43800	-.28570
1.460	-.230	.01140	-.04590	.02480	.00000	.43920	-.27320

RUN NO. 106/ 0 RN/L = 7.03

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.967	-7.470	.00810	-.50870	.19530	.00000	.39340	-.20820
1.967	-5.070	.00820	-.35210	.13810	.00000	.38690	-.19310
1.967	-2.670	.00840	-.21300	.08950	.00000	.38350	-.19400
1.967	-.310	.00840	-.07670	.04200	.00000	.37580	-.19890
1.967	2.030	.00860	.05630	-.00540	.00000	.36780	-.20130
1.967	4.340	.00860	.18740	-.05990	.00000	.37050	-.20330
1.967	6.700	.00870	.33030	-.12010	.00000	.37080	-.20080
1.967	-.270	.00820	-.05850	.04090	.00000	.36580	-.19350

ORIGINAL PAGE IS
OF POOR QUALITY

1A71 TABULATED SOURCE DATA

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MSFC T4T610 (1A-71) 77-0.74-TS 210 (INCIDENCE)

(IRIK120) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = -3.000
 FLIPOR = .000

RUN NO. 33/ 0 RN/L = 5.93

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.799	-7.070	.01240	-.58170	.24370	.00000	.29900	-.32240
.799	-4.860	.01210	-.44900	.18880	.00000	.29260	-.31480
.799	-2.640	.01200	-.30410	.12840	.00000	.28870	-.31780
.799	-.440	.01150	-.17470	.07890	.00000	.28580	-.31300
.799	1.750	.01160	-.05490	.03610	.00000	.28390	-.32080
.799	3.990	.01150	.07920	-.00390	.00000	.28030	-.32590
.799	6.250	.01140	.20900	-.04780	.00000	.27180	-.33520
.799	-.450	.01160	-.17530	.07950	.00000	.28730	-.31770

RUN NO. 27/ 0 RN/L = 6.27

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.902	-7.210	.01390	-.58720	.24240	.00000	.33840	-.34780
.902	-4.920	.01390	-.43500	.18210	.00000	.33040	-.33600
.902	-2.700	.01360	-.29420	.11950	.00000	.32990	-.33320
.902	-.480	.01320	-.15700	.05950	.00000	.32540	-.33580
.902	1.750	.01300	-.02420	.00780	.00000	.31890	-.33540
.902	4.000	.01300	.11810	-.04910	.00000	.31980	-.34920
.902	6.280	.01300	.25570	-.09770	.00000	.31230	-.36540
.902	-.480	.01360	-.15780	.06100	.00000	.33070	-.34490

RUN NO. 26/ 0 RN/L = 6.58

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.048	-7.370	.01670	-.65180	.29800	.00000	.46890	-.44390
1.048	-5.020	.01620	-.49080	.13500	.00000	.46520	-.43460
1.048	-2.710	.01580	-.33910	.17640	.00000	.46110	-.42730
1.048	-.430	.01580	-.19810	.11950	.00000	.45520	-.43070
1.048	1.830	.01600	-.06180	.06420	.00000	.45040	-.42760
1.048	4.110	.01510	.08650	-.00010	.00000	.44290	-.41730
1.048	6.430	.01530	.23240	-.05590	.00000	.43360	-.43400
1.048	-.420	.01600	-.19650	.11920	.00000	.45620	-.43490

IA71 TABULATED SOURCE DATA

MSFC T4T810 (IA-71) 77-0.74-TS Z10 (INCIDENCE)

(RIK120) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = -3.000
FLIPOR = .000

RUN NO. 25/ 0 RN/L = 6.81

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.096	-7.410	.01520	-.68720	.31220	.00000	.47300	-.42760
1.096	-5.040	.01590	-.50750	.25050	.00000	.47410	-.44090
1.096	-2.720	.01530	-.35240	.19040	.00000	.46950	-.42600
1.096	-.410	.01520	-.19940	.12730	.00000	.46430	-.41370
1.096	1.860	.01560	-.06140	.07150	.00000	.46040	-.41500
1.096	4.150	.01530	.08620	.00760	.00000	.45280	-.40760
1.096	6.500	.01530	.23920	-.05090	.00000	.44330	-.42040
1.096	-.410	.01530	-.19960	.12700	.00000	.46500	-.41490

RUN NO. 24/ 0 RN/L = 6.69

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.250	-7.530	.01554	-.65250	.28830	.00000	.46810	-.39790
1.250	-5.110	.01550	-.46950	.21550	.00000	.46410	-.38940
1.250	-2.730	.01580	-.30490	.15250	.00000	.46350	-.38090
1.250	-.370	.01590	-.14960	.09350	.00000	.46230	-.38910
1.250	1.920	.01620	-.00360	.03190	.00000	.46010	-.37910
1.250	4.230	.01660	.14020	-.02700	.00000	.45910	-.39430
1.250	6.580	.01640	.28810	-.08470	.00000	.44730	-.40260
1.250	-.370	.01550	-.14160	.08850	.00000	.45910	-.38070

RUN NO. 23/ 0 RN/L = 6.52

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.463	-7.510	.01410	-.65150	.29800	.00000	.46860	-.32330
1.463	-5.090	.01380	-.47730	.22930	.00000	.46170	-.30510
1.463	-2.720	.01370	-.31870	.16880	.00000	.45700	-.29690
1.463	-.380	.01350	-.16700	.10860	.00000	.45020	-.29640
1.463	1.950	.01360	-.01990	.05150	.00000	.44410	-.29550
1.463	4.250	.01340	.12040	-.00760	.00000	.44350	-.30350
1.463	6.600	.01320	.26200	-.06150	.00000	.43580	-.30670
1.463	-.360	.01360	-.16170	.10870	.00000	.44600	-.29330

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 77-0.74-TS Z10 SEALED W/GAP (RIK121) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 34/ 0 RN/L = 6.63

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.110	-7.310	.01590	-.60830	.28260	.00000	.50100	-.42280
1.110	-7.940	.01540	-.44340	.22030	.00000	.49090	-.40170
1.110	-2.620	.01510	-.30120	.16820	.00000	.48480	-.38800
1.110	-.330	.01480	-.16220	.11370	.00000	.48160	-.38350
1.110	1.960	.01510	-.01510	.09320	.00000	.47230	-.37210
1.110	4.270	.01510	.13760	-.01390	.00000	.46910	-.36360
1.110	6.610	.01470	.29840	-.07670	.00000	.45710	-.37820
1.110	-.320	.01480	-.16000	.11280	.00000	.48260	-.38060

MSFC TWT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF3 (RIK122) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 37/ 0 RN/L = 6.27

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.045	-7.160	.01360	-.48310	.16750	.00000	.33100	-.34280
1.045	-4.860	.01320	-.32450	.10350	.00000	.33040	-.32660
1.045	-2.660	.01260	-.18420	.03520	.00000	.32810	-.32410
1.045	-.420	.01280	-.04930	-.01950	.00000	.32760	-.33720
1.045	1.820	.01180	.09580	-.07730	.00000	.31890	-.31910
1.045	4.080	.01250	.22470	-.12150	.00000	.32080	-.33930
1.045	6.380	.01230	.34690	-.15000	.00000	.31630	-.35960
1.045	-.410	.01270	-.04450	-.02050	.00000	.32850	-.33460

RUN NO. 38/ 0 RN/L = 6.57

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.045	-7.260	.01630	-.53360	.22010	.00000	.47061	-.46010
1.045	-4.890	.01650	-.37170	.15940	.00000	.46910	-.45360
1.045	-2.590	.01600	-.22470	.10320	.00000	.46390	-.43690
1.045	-.360	.01600	-.08990	.03980	.00000	.46000	-.43090
1.045	1.910	.01580	.06150	-.02640	.00000	.45520	-.41360
1.045	4.210	.01600	.20710	-.08670	.00000	.45540	-.41850
1.045	6.530	.01640	.35590	-.14180	.00000	.44800	-.43750
1.045	-.350	.01620	-.08580	.03830	.00000	.46100	-.43320

IA71 TABULATED SOURCE DATA

(RIK122) (16 APR 75)

MSFC TWT810 (IA-71) 77-0.7N-TS Z10 W/FAIRINGSF3

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 25/ 0 RN/L = 6.69

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CP82
1.249	-7.430	.01620	-.52390	.19570	.00000	.47070	-.40160
1.249	-5.030	.01600	-.34300	.12350	.00000	.46820	-.39830
1.249	-2.640	.01550	-.18160	.06230	.00000	.46790	-.37020
1.249	-.310	.01560	-.03460	.00510	.00000	.47270	-.36880
1.249	2.000	.01570	.10630	-.05020	.00000	.47180	-.37300
1.249	4.310	.01580	.24660	-.10420	.00000	.47000	-.38940
1.249	6.670	.01650	.39170	-.15810	.00000	.46530	-.39690
1.249	-.300	.01530	-.02880	.00200	.00000	.46940	-.36340

(RIK123) (16 APR 75)

MSFC TWT810 (IA-71) 77-0.7N-TS Z10 W/FAIRINGSF5

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 41/ 0 RN/L = 6.32

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CP82
.897	-7.120	.01390	-.46770	.16360	.00000	.33280	-.33670
.897	-4.910	.01380	-.32420	.09360	.00000	.32850	-.31850
.897	-2.650	.01340	-.18270	.03360	.00000	.32660	-.31240
.897	-.400	.01310	-.04640	-.01680	.00000	.32280	-.30940
.897	1.860	.01310	.10340	-.07410	.00000	.32390	-.31270
.897	4.140	.01320	.22980	-.10890	.00000	.32050	-.32650
.897	6.390	.01300	.35250	-.14580	.00000	.31960	-.35680
.897	-.400	.01320	-.04210	-.01860	.00000	.32920	-.31270

RUN NO. 42/ 0 RN/L = 6.60

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CP82
1.045	-7.210	.01730	-.52440	.22280	.00000	.47150	-.47780
1.045	-4.910	.01670	-.37450	.16240	.00000	.46800	-.45930
1.045	-2.640	.01630	-.23160	.09770	.00000	.46280	-.44530
1.045	-.340	.01660	-.08080	.03610	.00000	.46310	-.44390
1.045	1.970	.01730	.07200	-.02190	.00000	.46360	-.44290
1.045	4.280	.01600	.22940	-.08570	.00000	.45290	-.42720
1.045	6.590	.01660	.37490	-.14340	.00000	.44830	-.45130
1.045	-.330	.01680	-.07900	.03600	.00000	.46460	-.44860

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1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 77-0.7N-1S 210 W/FAIRINGSF5 (RIK123) (18 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 43/ 0 RN/L = 6.7N

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.249	-7.410	.01650	-.51730	.19490	.00000	.46080	-.39900
1.249	-5.010	.01590	-.33750	.12420	.00000	.46000	-.38980
1.249	-2.680	.01560	-.19740	.06650	.00000	.46680	-.37870
1.249	-.350	.01580	-.04540	.00560	.00000	.46680	.37680
1.249	2.000	.01620	.10740	-.04950	.00000	.46230	-.38820
1.249	4.360	.01620	.25660	-.10230	.00000	.46140	-.38910
1.249	6.680	.01660	.40050	-.15840	.00000	.45880	-.39490
1.249	-.340	.01520	-.03840	.00110	.00000	.45940	-.36120

MSFC TWT610 (1A-71) 77-0.7N-1S 210 W/FAIRINGSF5 (RIK124) (18 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 46/ 0 RN/L = 6.32

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.907	-7.150	.01310	-.48250	.17170	.00000	.31470	-.32500
.907	-4.840	.01280	-.32670	.11140	.00000	.31010	-.30390
.907	-2.620	.01280	-.18900	.05000	.00000	.31310	-.30200
.907	-.380	.01240	-.05130	-.00700	.00000	.31100	-.30940
.907	1.860	.01200	.09680	-.06860	.00000	.30710	-.30550
.907	4.100	.01210	.21700	-.10740	.00000	.30250	-.32000
.907	6.420	.01200	.34550	-.13770	.00000	.29940	-.34740
.907	-.380	.01230	-.05020	-.00690	.00000	.31150	-.30820

RUN NO. 45/ 0 RN/L = 6.61

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.045	-7.300	.01740	-.56790	.24020	.00000	.44210	-.46640
1.045	-4.960	.01710	-.39610	.17120	.00000	.45860	-.45190
1.045	-2.620	.01670	-.23880	.10980	.00000	.45690	-.44280
1.045	-.340	.01710	-.09230	.04780	.00000	.45850	-.43950
1.045	1.950	.01760	.05700	-.01280	.00000	.45580	-.43760
1.045	4.200	.01680	.20500	-.08260	.00000	.45010	-.42470
1.045	6.550	.01710	.35190	-.13200	.00000	.44580	-.44640
1.045	-.330	.01730	-.09290	.04910	.00000	.46120	-.44770

IA71 TABULATED SOURCE DATA

MSFC TWTB10 (IA-71) 77-0.74-TS 210 W/FAIRINGSF11

(RIK125) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 44/ 0 RM/L = 8.72

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.248	-7.450	.01430	-.50800	.17720	.00000	.43610	-.33270
1.248	-5.040	.01410	-.32920	.10940	.00000	.43570	-.33520
1.248	-2.660	.01410	-.17450	.05240	.00000	.43780	-.34520
1.248	-.310	.01440	-.02940	.00140	.00000	.43890	-.35020
1.248	2.010	.01460	.11270	-.05360	.00000	.43450	-.33830
1.248	4.340	.01500	.25180	-.10710	.00000	.43540	-.35940
1.248	6.700	.01530	.39800	-.15780	.00000	.43210	-.37500
1.248	-.290	.01450	-.02450	.00060	.00000	.43680	-.35090

MSFC TWTB10 (IA-71) 74-015 Z13

(RIK125) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 370/ 0 RM/L = 5.97

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.799	-7.130	.01070	-.55240	.23910	.00000	.30020	-.29480
.799	-4.820	.01000	-.42350	.18540	.00000	.29950	-.28820
.799	-2.700	.00970	-.29420	.13920	.00000	.29610	-.29580
.799	-.500	.00960	-.17060	.09290	.00000	.29310	-.29950
.799	1.700	.00950	-.04730	.05160	.00000	.28850	-.29820
.799	3.940	.00960	.08820	.00690	.00000	.28230	-.30460
.799	6.190	.00940	.23310	-.04680	.00000	.27020	-.30830
.799	-.480	.00960	-.17250	.09400	.00000	.29410	-.29880

RUN NO. 371/ 0 RM/L = 8.30

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.902	-7.260	.01130	-.57630	.25380	.00000	.33390	-.32380
.902	-4.980	.01080	-.42420	.19670	.00000	.33010	-.31130
.902	-2.740	.01050	-.28980	.13970	.00000	.32840	-.31540
.902	-.510	.01020	-.14980	.07970	.00000	.32380	-.31090
.902	1.720	.01020	.00470	.00970	.00000	.31720	-.30850
.902	3.960	.01010	.14490	-.05080	.00000	.30920	-.31430
.902	6.270	.01010	.28020	-.08840	.00000	.30700	-.32960
.902	-.490	.01020	-.15110	.08050	.00000	.32660	-.31400

1A71 TABULATED SOURCE DATA

MSFC TW1610 (1A-71) 74-OTS Z13 (RIK125) (18 APR 75)

PARAMETRIC DATA

DELTA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 372/ 0 RN/L = 6.41

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.945	-7.310	.01200	-.56440	.24480	.00000	.38540	-.37000
.945	-4.990	.01190	-.41300	.19020	.00000	.38020	-.35620
.945	-2.720	.01140	-.28200	.14270	.00000	.35680	-.32980
.945	-.470	.01190	-.14160	.08560	.00000	.38840	-.33740
.945	1.780	.01130	.01990	.00610	.00000	.34720	-.31970
.945	3.990	.01100	.19530	-.05240	.00000	.33710	-.32950
.945	6.300	.01100	.30270	-.10820	.00000	.33680	-.35510
.945	-.460	.01110	-.14220	.08370	.00000	.35300	-.32330

RUN NO. 377/ 0 RN/L = 6.51

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.998	-7.300	.01560	-.61130	.29720	.00000	.47540	-.49130
.998	-4.970	.01540	-.45000	.23520	.00000	.47330	-.47760
.998	-2.680	.01550	-.30610	.18000	.00000	.46970	-.46810
.999	-.400	.01570	-.15880	.11910	.00000	.46900	-.45110
.999	1.850	.01500	-.00450	.04260	.00000	.45520	-.43570
.999	4.080	.01580	.14800	-.02940	.00000	.45090	-.44120
.998	6.390	.01530	.30920	-.09930	.00000	.43520	-.45590
.998	-.390	.01590	-.15860	.11700	.00000	.46120	-.45220

RUN NO. 378/ 0 RN/L = 6.56

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.051	-7.360	.01620	-.60980	.29350	.00000	.48510	-.46880
1.051	-5.020	.01580	-.44610	.23060	.00000	.47930	-.45070
1.051	-2.690	.01530	-.29990	.17480	.00000	.47360	-.42960
1.051	-.400	.01530	-.14410	.10910	.00000	.46480	-.41500
1.051	1.860	.01540	.01150	.03450	.00000	.45310	-.39650
1.051	4.120	.01500	.16450	-.03870	.00000	.44380	-.39020
1.051	6.430	.01540	.31150	-.09320	.00000	.43550	-.41040
1.051	-.390	.01540	-.14430	.10950	.00000	.46570	-.41920

1A71 TABULATED SOURCE DATA

MSFC TMT610 (1A-71) 74-OTS Z13 (RJ125) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 376/ 0 RN/L = 6.66

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.104	-7.410	.01330	-.60670	.28720	.00000	.49740	-.47420
1.104	-5.030	.01320	-.44020	.22440	.00000	.49410	-.45350
1.104	-2.700	.01320	-.26500	.16380	.00000	.48830	-.42930
1.104	-.380	.01360	-.12670	.09790	.00000	.48250	-.41980
1.104	1.920	.01390	.02740	.02810	.00000	.47330	-.40410
1.104	4.190	.01390	.17270	-.03710	.00000	.46600	-.40690
1.104	6.530	.01370	.32730	-.09600	.00000	.45500	-.40030
1.104	-.370	.01390	-.12940	.09890	.00000	.48370	-.42470

RUN NO. 375/ 0 RN/L = 6.69

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.149	-7.460	.01360	-.61740	.28990	.00000	.50040	-.46170
1.149	-5.050	.01350	-.43040	.21440	.00000	.49380	-.43880
1.149	-2.700	.01340	-.25500	.13970	.00000	.48780	-.41010
1.149	-.350	.01370	-.09120	.07390	.00000	.48210	-.39870
1.149	1.940	.01370	.05790	.00920	.00000	.47300	-.38780
1.149	4.230	.01380	.20710	-.05470	.00000	.46760	-.40110
1.149	6.600	.01400	.36490	-.11620	.00000	.46630	-.40540
1.149	-.330	.01380	-.09300	.07480	.00000	.48270	-.39910

RUN NO. 373/ 0 RN/L = 6.72

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.203	-7.510	.01240	-.57680	.24680	.00000	.48330	-.41300
1.203	-5.080	.01230	-.38260	.16870	.00000	.47880	-.39480
1.203	-2.710	.01220	-.21310	.10000	.00000	.47370	-.36450
1.203	-.360	.01250	-.05250	.03770	.00000	.47180	-.36040
1.203	1.940	.01260	.09050	-.02010	.00000	.46780	-.36090
1.203	4.240	.01260	.23030	-.07790	.00000	.46470	-.36660
1.203	6.610	.01310	.38470	-.13470	.00000	.46070	-.37810
1.203	-.320	.01200	-.05030	.03880	.00000	.46960	-.34550

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POOR QUALITY

1A71 TABULATED SOURCE DATA

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MSFC TWT610 (1A-71) 74-OTS 213

(RIK125) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 374/ 0 RN/L = 6.72

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.248	-7.520	.01290	-.56850	.24290	.00000	.47670	-.39380
1.248	-5.090	.01280	-.38030	.16680	.00000	.47230	-.37990
1.248	-2.710	.01270	-.21340	.10270	.00000	.47000	-.35450
1.248	-.340	.01250	-.05560	.04370	.00000	.46840	-.34960
1.248	1.960	.01270	.08430	-.01180	.00000	.46540	-.34910
1.248	4.260	.01320	.22350	-.06900	.00000	.46440	-.36590
1.248	6.620	.01300	.37540	-.12890	.00000	.45600	-.37120
1.248	-.320	.01220	-.05150	.04050	.00000	.46520	-.34340

RUN NO. 356/ 0 RN/L = 6.54

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.461	-7.550	.00720	-.55230	.22610	.00000	.45310	-.29050
1.461	-5.130	.00690	-.37470	.15490	.00000	.44570	-.26870
1.461	-2.760	.00620	-.20950	.09030	.00000	.44520	-.27020
1.461	-.390	.00590	-.05670	.03390	.00000	.44290	-.26850
1.461	1.960	.00570	.09200	-.01940	.00000	.43880	-.26570
1.461	4.260	.00680	.22160	-.07030	.00000	.43520	-.26880
1.461	6.610	.00670	.35230	-.12290	.00000	.43250	-.28040
1.461	-.380	.00650	-.05770	.03740	.00000	.43960	-.26540

RUN NO. 357/ 0 RN/L = 7.07

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.957	-7.580	.00100	-.51800	.20650	.00000	.40310	-.20400
1.957	-5.180	.00110	-.36290	.14870	.00000	.39510	-.18730
1.957	-2.810	.00140	-.22130	.09750	.00000	.39060	-.19010
1.957	-.450	.00180	-.08530	.04840	.00000	.38800	-.18980
1.957	1.910	.00140	.05170	-.03280	.00000	.37730	-.19730
1.957	4.220	.00170	.18740	-.06030	.00000	.37220	-.20130
1.957	6.550	.00110	.32840	-.11920	.00000	.36810	-.19440
1.957	-.410	.00150	-.07770	.04650	.00000	.37470	-.18700

IA71 TABULATED SOURCE DATA

(RIK126) (16 APR 75)

MSFC TMT610 (1A-71) 7N-OTS 213

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 369/ 0 RN/L = 5.96

MACH	ALPHA	CNEF	CNU	CLMU	CABF	CA	CP82
.800	-7.150	.01030	-.60750	.28140	.00000	.31520	-.29460
.800	-4.930	.00990	-.47830	.22890	.00000	.31490	-.28670
.800	-2.710	.00980	-.34470	.18000	.00000	.31470	-.29180
.800	-.510	.00970	-.22200	.13470	.00000	.31300	-.29660
.800	1.710	.00960	-.09580	.09190	.00000	.30710	-.29700
.800	3.920	.00950	.03670	.04790	.00000	.29910	-.29780
.800	6.180	.00940	.18760	-.01200	.00000	.28660	-.30700
.800	-.500	.00980	-.22420	.13550	.00000	.31440	-.29700

RUN NO. 368/ 0 RN/L = 6.30

MACH	ALPHA	CNEF	CNU	CLMU	CABF	CA	CP82
.903	-7.270	.01130	-.62350	.29350	.00000	.35400	-.31890
.903	-4.970	.01130	-.47430	.23910	.00000	.35200	-.31690
.903	-2.750	.01050	-.34070	.18240	.00000	.34630	-.31160
.903	-.520	.01040	-.21090	.12990	.00000	.34280	-.31450
.903	1.710	.01060	-.06300	.06640	.00000	.33580	-.31880
.903	3.950	.01040	.09570	-.00830	.00000	.32690	-.32360
.903	6.260	.01040	.24550	-.06100	.00000	.31760	-.33470
.903	-.490	.01060	-.20280	.12730	.00000	.34750	-.32100

RUN NO. 365/ 0 RN/L = 6.52

MACH	ALPHA	CNEF	CNU	CLMU	CABF	CA	CP82
1.000	-7.300	.01570	-.63730	.32240	.00000	.49740	-.48450
1.000	-4.990	.01570	-.48200	.26380	.00000	.48480	-.47190
1.000	-2.680	.01570	-.34510	.21370	.00000	.48620	-.45980
1.000	-.420	.01590	-.20650	.15810	.00000	.48370	-.44070
1.000	1.810	.01620	-.05700	.08620	.00000	.47320	-.42950
1.000	4.080	.01610	.10750	.00670	.00000	.46290	-.43590
1.000	6.380	.01530	.27460	-.06870	.00000	.44460	-.44920
1.000	-.430	.01530	-.20950	.15830	.00000	.47920	-.44130

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POOR QUALITY

IA71 TABULATED SOURCE DATA

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MSFC TW1810 (1A-71) 74-OTS 213

(RIK126) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
PLIPOR = 40.000

RUN NO. 364/ 0 RN/L = 8.80

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.048	-7.350	.01460	-.63500	.31670	.00000	.50570	-.46230
1.048	-5.020	.01450	-.47660	.25660	.00000	.50120	-.44430
1.048	-2.690	.01430	-.33490	.20590	.00000	.49440	-.42700
1.048	-.400	.01470	-.19370	.15120	.00000	.48560	-.41870
1.048	1.840	.01460	-.04440	.08150	.00000	.47360	-.39990
1.048	4.100	.01460	.11280	.00430	.00000	.45850	-.40660
1.048	6.460	.01390	.28640	-.06820	.00000	.44360	-.40520
1.048	-.390	.01450	-.19660	.15330	.00000	.46850	-.42480

RUN NO. 366/ 0 RN/L = 8.67

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.109	-7.390	.01250	-.63460	.31630	.00000	.50530	-.43620
1.109	-5.020	.01220	-.47070	.25450	.00000	.49850	-.41800
1.109	-2.700	.01200	-.32450	.19890	.00000	.49090	-.39430
1.109	-.390	.01220	-.16930	.13410	.00000	.48180	-.38890
1.109	1.890	.01270	-.01260	.06110	.00000	.46880	-.37190
1.109	4.160	.01270	.13690	-.00690	.00000	.45960	-.37080
1.109	6.510	.01230	.29450	-.06800	.00000	.44790	-.37060
1.109	-.390	.01240	-.17040	.13420	.00000	.48240	-.39070

RUN NO. 367/ 0 RN/L = 8.71

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.252	-7.930	.01190	-.59750	.26730	.00000	.49060	-.38900
1.252	-5.090	.01200	-.40490	.18760	.00000	.48290	-.37300
1.252	-2.720	.01190	-.23390	.11960	.00000	.47750	-.34920
1.252	-.350	.01190	-.07670	.06060	.00000	.47410	-.33930
1.252	1.950	.01250	.06000	.00700	.00000	.46970	-.34050
1.252	4.250	.01280	.19920	-.04990	.00000	.46940	-.36260
1.252	6.600	.01280	.34970	-.10930	.00000	.45800	-.36650
1.252	-.340	.01180	-.07170	.05790	.00000	.47210	-.33600

1A71 TABULATED SOURCE DATA

MSFC THT610 (1A-71) 74-OTS Z13 (RIK126) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 355/ 0 RN/L = 8.53

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.461	-7.560	.00820	-.57080	.24180	.00000	.48180	-.28430
1.461	-5.130	.00800	-.38930	.16830	.00000	.45450	-.27170
1.461	-2.780	.00810	-.22520	.10430	.00000	.45310	-.27330
1.461	-.390	.00700	-.07070	.04700	.00000	.44980	-.27030
1.461	1.960	.00710	.07620	-.00810	.00000	.44530	-.26980
1.461	4.270	.00680	.20520	-.05620	.00000	.44110	-.27140
1.461	8.610	.00650	.34460	-.10790	.00000	.43820	-.28120
1.461	-.360	.00640	-.07070	.04940	.00000	.44570	-.26600

RUN NO. 359/ 0 RN/L = 7.04

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.957	-7.610	.00270	-.53290	.21820	.00000	.41220	-.20680
1.957	-5.180	.00310	-.37450	.15920	.00000	.40390	-.18750
1.957	-2.810	.00350	-.23180	.10710	.00000	.39850	-.19130
1.957	-.450	.00400	-.09600	.05880	.00000	.39340	-.19060
1.957	1.890	.00490	.04110	.00690	.00000	.38750	-.20160
1.957	4.230	.00470	.17730	-.05030	.00000	.38110	-.20130
1.957	6.550	.00480	.31780	-.10900	.00000	.37250	-.19600
1.957	-.420	.00380	-.08650	.05600	.00000	.37910	-.18880

MSFC THT610 (1A-71) 74-OTS Z13

(RIK127) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 380/ 0 RN/L = 6.28

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
.902	-6.600	.01370	-.13030	.06880	.00000	.34360	-.39540
.902	-4.450	.01350	-.13880	.07500	.00000	.34090	-.37730
.902	-2.290	.01340	-.14900	.08080	.00000	.33620	-.36190
.902	-.160	.01340	-.15670	.08580	.00000	.32970	-.34450
.902	1.960	.01300	-.14860	.08160	.00000	.33120	-.31990
.902	4.090	.01340	-.14350	.07830	.00000	.33150	-.31390
.902	6.240	.01370	-.13210	.07040	.00000	.33520	-.30970
.902	-.150	.01330	-.15500	.08520	.00000	.32680	-.33880

IA71 TABULATED SOURCE DATA

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MSFC TW1610 (1A-71) 7N-OTS 213

(RIK127) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 379/ 0 RN/L = 6.57

MACH	BETA	CNSF	CNU	CLMU	CABF	CA	CP82
1.048	-6.670	.01590	-.10590	.07570	.00000	.46680	-.45920
1.048	-4.480	.01560	-.11650	.08760	.00000	.46910	-.46080
1.048	-2.300	.01560	-.12770	.09880	.00000	.47020	-.45920
1.048	-.150	.01600	-.13840	.10590	.00000	.46930	-.44570
1.048	1.990	.01550	-.13010	.09980	.00000	.46880	-.42830
1.048	4.140	.01520	-.12180	.09240	.00000	.46950	-.40290
1.048	6.300	.01600	-.11580	.08590	.00000	.46840	-.39590
1.048	-.140	.01510	-.12870	.09950	.00000	.46410	-.42820

RUN NO. 381/ 0 RN/L = 6.68

MACH	BETA	CNSF	CNU	CLMU	CABF	CA	CP82
1.247	-6.780	.01440	-.06420	.03830	.00000	.47840	-.37740
1.247	-4.530	.01430	-.06670	.04410	.00000	.47320	-.37360
1.247	-2.330	.01450	-.06850	.04720	.00000	.47230	-.37870
1.247	-.150	.01460	-.07230	.05030	.00000	.46920	-.38140
1.247	2.020	.01430	-.06770	.04850	.00000	.47290	-.37830
1.247	4.200	.01510	-.06900	.04780	.00000	.47920	-.36870
1.247	6.430	.01590	-.06470	.04350	.00000	.48600	-.36430
1.247	-.150	.01460	-.07310	.05100	.00000	.46930	-.38150

RUN NO. 358/ 0 RN/L = 7.01

MACH	BETA	CNSF	CNU	CLMU	CABF	CA	CP82
1.963	-6.780	.00260	-.07250	.03640	.00000	.38390	-.22200
1.963	-4.540	.00300	-.07420	.03920	.00000	.38290	-.21340
1.963	-2.340	.00340	-.08020	.04600	.00000	.38040	-.21170
1.963	-.140	.00400	-.08610	.05020	.00000	.38210	-.21370
1.963	2.040	.00460	-.08250	.04740	.00000	.38660	-.21100
1.963	4.240	.00500	-.07490	.04020	.00000	.39590	-.20090
1.963	6.470	.00520	-.07510	.03810	.00000	.38930	-.18630
1.963	-.130	.00370	-.08680	.05120	.00000	.37440	-.20870

IA71 TABULATED SOURCE DATA

HSFC TWTB10 (IA-71) 74-QTS 213 (RIK128) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 361/ 0 RN/L = 6.28

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
.902	-6.590	.01190	-.17490	.10570	.00000	.35470	-.39270
.902	-4.430	.01190	-.18390	.11440	.00000	.35320	-.38360
.902	-2.290	.01150	-.19910	.12440	.00000	.35000	-.36660
.902	-.160	.01170	-.21370	.13220	.00000	.34480	-.35270
.902	1.980	.01180	-.20540	.12780	.00000	.35080	-.33510
.902	4.090	.01220	-.19150	.12040	.00000	.35180	-.32230
.902	6.240	.01280	-.18320	.11350	.00000	.35290	-.31900
.902	-.160	.01140	-.20250	.12820	.00000	.34870	-.35450

RUN NO. 363/ 0 RN/L = 6.63

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.048	-6.680	.01300	-.14820	.10870	.00000	.48410	-.46280
1.048	-4.490	.01320	-.16010	.12270	.00000	.48760	-.46560
1.048	-2.300	.01350	-.17540	.13720	.00000	.48940	-.46280
1.048	-.150	.01410	-.18300	.14520	.00000	.48680	-.45330
1.048	1.980	.01320	-.17640	.13740	.00000	.48420	-.41690
1.048	4.130	.01350	-.17350	.13290	.00000	.48640	-.40490
1.048	6.300	.01360	-.16040	.12190	.00000	.48450	-.39110
1.048	-.150	.01380	-.18210	.14440	.00000	.48510	-.44650

RUN NO. 362/ 0 RN/L = 6.75

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.253	-6.780	.01180	-.08160	.05470	.00000	.48670	-.39090
1.253	-4.550	.01160	-.08220	.05880	.00000	.48020	-.38480
1.253	-2.330	.01200	-.08380	.06140	.00000	.47830	-.38560
1.253	-.150	.01260	-.08850	.06430	.00000	.47510	-.38800
1.253	2.020	.01240	-.08680	.06560	.00000	.48000	-.38450
1.253	4.210	.01260	-.08690	.06310	.00000	.48200	-.35090
1.253	6.410	.01330	-.09030	.05310	.00000	.48620	-.35750
1.253	-.140	.01230	-.09110	.06470	.00000	.47180	-.38280

1A71 TABULATED SOURCE DATA

MSFC TW7610 (1A-71) 74-OTS Z13 (RIK128) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 360/ 0 RN/L = 7.03

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.963	-6.780	.00270	-.08480	.04720	.00000	.38940	-.22110
1.963	-4.540	.00310	-.08560	.04940	.00000	.38880	-.21040
1.963	-2.340	.00350	-.09140	.01590	.00000	.38620	-.20790
1.963	-.150	.00410	-.09470	.05970	.00000	.38820	-.21210
1.963	2.040	.00470	-.09180	.05680	.00000	.39100	-.21110
1.963	4.230	.00470	-.08450	.05030	.00000	.39360	-.19260
1.963	6.470	.00530	-.08470	.04840	.00000	.38930	-.18460
1.963	-.140	.00410	-.09860	.06160	.00000	.38330	-.20900

MSFC TW7610 (1A-71) 74-OTS Z12

(RIK129) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 383/ 0 RN/L = 6.24

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.902	-7.280	.01330	-.56930	.24320	.00000	.33490	-.35250
.902	-4.980	.01270	-.41590	.18590	.00000	.33030	-.33580
.902	-2.740	.01190	-.27850	.12880	.00000	.32590	-.32820
.902	-.510	.01180	-.14530	.07390	.00000	.32040	-.32780
.902	1.710	.01180	-.01100	.02040	.00000	.31720	-.33120
.902	3.950	.01140	.12530	-.03370	.00000	.30860	-.32950
.902	6.260	.01190	.26190	-.07640	.00000	.31840	-.35820
.902	-.490	.01210	-.14550	.07340	.00000	.31970	-.33130

RUN NO. 384/ 0 RN/L = 6.47

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.996	-7.310	.01840	-.59970	.28510	.00000	.47470	-.49230
.996	-4.980	.01830	-.44020	.22380	.00000	.47170	-.47700
.996	-2.690	.01790	-.29540	.16880	.00000	.46520	-.46510
.996	-.410	.01830	-.15260	.11160	.00000	.46320	-.45590
.996	1.820	.01830	-.00820	.04470	.00000	.45540	-.44400
.996	4.380	.01840	.13890	-.02210	.00000	.45700	-.44450
.996	6.380	.01760	.30020	-.09230	.00000	.44430	-.45710
.996	-.400	.01830	-.15350	.11120	.00000	.45830	-.45530

IA71 TABULATED SOURCE DATA

MSFC TWT610 (IA-71) 74-OTS Z12 (RIK129) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 385/ 0 RN/L = 6.57

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.050	-7.380	.01720	-.60510	.28370	.00000	.48690	-.47280
1.050	-5.010	.01680	-.43900	.22050	.00000	.48030	-.45490
1.050	-2.700	.01620	-.28950	.16380	.00000	.47380	-.43250
1.050	-.400	.01610	-.14020	.10490	.00000	.46760	-.42570
1.050	1.850	.01630	.00590	.03890	.00000	.45950	-.40990
1.050	4.110	.01600	.15500	-.03130	.00000	.45450	-.40130
1.050	6.450	.01630	.30740	-.08920	.00000	.44610	-.41600
1.050	-.400	.01610	-.14010	.10440	.00000	.46690	-.42520

RUN NO. 382/ 0 RN/L = 6.67

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.251	-7.530	.01520	-.57880	.24900	.00000	.48090	-.39930
1.251	-5.100	.01540	-.39000	.17350	.00000	.47780	-.38740
1.251	-2.710	.01510	-.22080	.10820	.00000	.47660	-.35850
1.251	-.350	.01500	-.06430	.04930	.00000	.47560	-.35310
1.251	1.950	.01500	.07440	-.00460	.00000	.47240	-.35260
1.251	4.240	.01490	.21320	-.06300	.00000	.46670	-.36110
1.251	6.610	.01550	.36230	-.11970	.00000	.46250	-.37540
1.251	-.350	.01440	-.05640	.04360	.00000	.47070	-.33960

MSFC TWT610 (IA-71) 74-OTS Z14

(RIK130) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 388/ 0 RN/L = 6.29

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.904	-7.290	.01340	-.57820	.24910	.00000	.33470	-.34790
.904	-4.980	.01290	-.42250	.19020	.00000	.33210	-.33490
.904	-2.750	.01220	-.28330	.13250	.00000	.32910	-.33630
.904	-.510	.01190	-.14860	.07740	.00000	.32590	-.33180
.904	1.730	.01180	-.01720	.02560	.00000	.32130	-.33140
.904	3.950	.01190	.12440	-.03320	.00000	.31680	-.33740
.904	6.260	.01190	.26600	-.07930	.00000	.31300	-.35320
.904	-.500	.01170	-.15050	.07790	.00000	.32460	-.32720

IA71 TABULATED SOURCE DATA

(RIK130) (16 APR 75)

MSFC TWTB10 (IA-71) 7N-OTS Z14

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 387/ 0 RN/L = 6.50

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.002	-7.320	.01730	-.60100	.28690	.00000	.46930	-.46930
1.002	-4.980	.01690	-.44220	.22630	.00000	.46450	-.46510
1.002	-2.690	.01650	-.29920	.17230	.00000	.45710	-.45180
1.002	-.420	.01710	-.16090	.11660	.00000	.45170	-.44530
1.002	1.820	.01680	-.01990	.05930	.00000	.44980	-.42780
1.002	4.070	.01680	.14350	-.02950	.00000	.43970	-.43310
1.002	6.380	.01650	.29080	-.08500	.00000	.43670	-.44230
1.002	-.390	.01630	-.15550	.11373	.00000	.44560	-.43140

RUN NO. 386/ 0 RN/L = 6.57

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.048	-7.360	.01840	-.60150	.28450	.00000	.48070	-.47060
1.048	-5.010	.01590	-.44200	.22440	.00000	.47500	-.44910
1.048	-2.700	.01560	-.29590	.16970	.00000	.46950	-.43540
1.048	-.400	.01530	-.14880	.11230	.00000	.46300	-.42740
1.048	1.840	.01560	-.00560	.04680	.00000	.45420	-.40750
1.048	4.130	.01530	.15070	-.02790	.00000	.44790	-.39520
1.048	6.450	.01560	.29850	-.08150	.00000	.44010	-.40730
1.048	-.380	.01550	-.14660	.11100	.00000	.46280	-.42800

RUN NO. 389/ 0 RN/L = 6.68

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.249	-7.530	.01490	-.57550	.24590	.00000	.47610	-.40490
1.249	-5.110	.01490	-.38410	.16910	.00000	.47350	-.39120
1.249	-2.740	.01460	-.21680	.10350	.00000	.47000	-.36710
1.249	-.360	.01450	-.06450	.04800	.00000	.46980	-.36480
1.249	1.950	.01460	.07640	-.00720	.00000	.46530	-.36190
1.249	4.240	.01460	.21440	-.06500	.00000	.45990	-.37080
1.249	6.570	.01510	.36150	-.12140	.00000	.45470	-.38130
1.249	-.350	.01400	-.05650	.04220	.00000	.46480	-.35060

1A71 TABULATED SOURCE DATA

(SIX) (131) (16 APR 75)

MSFC TWT610 (1A-71) 77-0,74-TS Z13

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 93/ 0 RN/L = 5.82

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.797	-6.970	.01080	-.51720	.21220	.00000	.29490	-.30820
.797	-4.770	.01010	-.39070	.15680	.00000	.29290	-.29840
.797	-2.950	.00970	-.26100	.11040	.00000	.29070	-.29980
.797	-.350	.00960	-.13120	.05980	.00000	.28970	-.30160
.797	1.870	.00950	.00550	.01420	.00000	.28390	-.29510
.797	4.100	.00960	.13730	-.02870	.00000	.27850	-.29940
.797	6.350	.00900	.26640	-.08930	.00000	.26680	-.29340
.797	-.360	.00960	-.13120	.05970	.00000	.29150	-.30200

RUN NO. 92/ 0 RN/L = 6.25

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.903	-7.130	.01250	-.54540	.22500	.00000	.37580	-.34910
.903	-4.820	.01220	-.39160	.17030	.00000	.33480	-.33110
.903	-2.590	.01150	-.25500	.11080	.00000	.33050	-.32270
.903	-.360	.01090	-.11010	.04610	.00000	.32500	-.31710
.903	1.870	.01090	.03990	-.02060	.00000	.31810	-.31920
.903	4.120	.01060	.18510	-.08040	.00000	.31130	-.32050
.903	6.430	.01050	.32540	-.12330	.00000	.37530	-.33320
.903	-.360	.01080	-.11120	.04710	.00000	.32730	-.31930

RUN NO. 91/ 0 RN/L = 6.40

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.952	-7.170	.01330	-.53160	.21490	.00000	.36980	-.38590
.952	-4.840	.01290	-.37940	.16180	.00000	.36920	-.36920
.952	-2.560	.01240	-.24200	.11290	.00000	.36720	-.35410
.952	-.320	.01220	-.09770	.04850	.00000	.36480	-.35150
.952	1.920	.01190	.05060	-.01590	.00000	.35520	-.34160
.952	4.150	.01180	.19260	-.08140	.00000	.34760	-.34580
.952	6.520	.01210	.33980	-.12430	.00000	.35410	-.36530
.952	-.330	.01220	-.10050	.04950	.00000	.36190	-.35320

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IA71 TABULATED SOURCE DATA

(RIK131) (16 APR 75)

MSFC TMT610 (IA-71) 77-0, 74-TS 213

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 90/ 0 RN/L = 6.50

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.998	-7.160	.01670	-.55680	.25040	.00000	.45970	-.47840
.998	-4.830	.01660	-.39850	.18880	.00000	.46040	-.46770
.998	-2.540	.01590	-.25420	.13350	.00000	.45680	-.45420
.998	-.280	.01560	-.10730	.06760	.00000	.45120	-.45410
.998	1.980	.01560	.04200	.00410	.00000	.45120	-.44400
.998	4.210	.01560	.19980	-.06760	.00000	.44030	-.45300
.998	6.550	.01570	.34050	-.12250	.00000	.43520	-.45680
.998	-.280	.01500	-.10560	.06640	.00000	.44710	-.44130

RUN NO. 89/ 0 RN/L = 6.57

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.048	-7.230	.01580	-.56570	.24990	.00000	.47450	-.46350
1.048	-4.880	.01490	-.40240	.18720	.00000	.46920	-.43560
1.048	-2.570	.01450	-.25180	.12890	.00000	.46770	-.42620
1.048	-.280	.01440	-.10230	.06530	.00000	.46300	-.42250
1.048	1.990	.01420	.04690	.00070	.00000	.45430	-.40980
1.048	4.250	.01470	.19200	-.06500	.00000	.44820	-.42610
1.048	6.600	.01420	.34850	-.12220	.00000	.43780	-.41980
1.048	-.280	.01420	-.10130	.06550	.00000	.46360	-.41930

RUN NO. 87/ 0 RN/L = 6.63

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.104	-7.230	.01250	-.54800	.24260	.00000	.46450	-.38580
1.104	-4.860	.01200	-.38630	.18150	.00000	.46050	-.36380
1.104	-2.550	.01160	-.23830	.12340	.00000	.45650	-.34840
1.104	-.280	.01090	-.09590	.06100	.00000	.45050	-.33910
1.104	2.010	.01100	.09450	-.00190	.00000	.44210	-.33750
1.104	4.280	.01080	.19880	-.06800	.00000	.43450	-.34650
1.104	6.630	.01070	.35110	-.12400	.00000	.42480	-.35050
1.104	-.270	.01110	-.09180	.05950	.00000	.45110	-.34180

MSFC TMTB10 (IA-71) 77-0.74-TS 2:3 (RIK131) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 88/ 0 RN/L = 6.66

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.150	-7.260	.01050	-.53690	.23290	.00000	.45040	-.36220
1.150	-4.680	.01080	-.38070	.17570	.00000	.44770	-.34960
1.150	-2.950	.01000	-.23060	.11990	.00000	.44370	-.32650
1.150	-.230	.01020	-.08570	.06370	.00000	.44050	-.33360
1.150	2.040	.01010	.05620	.00090	.00000	.43160	-.31500
1.150	4.300	.00960	.19380	-.06130	.00000	.42260	-.30560
1.150	6.660	.00980	.34120	-.11250	.00000	.41590	-.31450
1.150	-.240	.01000	-.08680	.06330	.00000	.44030	-.32930

RUN NO. 94/ 0 RN/L = 6.66

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.198	-7.400	.01550	-.54640	.21470	.00000	.47720	-.42370
1.198	-4.970	.01520	-.35660	.13810	.00000	.47400	-.41000
1.198	-2.600	.01480	-.18960	.07250	.00000	.47140	-.38900
1.198	-.240	.01460	-.03430	.01590	.00000	.47180	-.38140
1.198	2.070	.01420	.10760	-.03920	.00000	.46610	-.36610
1.198	4.380	.01460	.25120	-.09630	.00000	.46830	-.39090
1.198	6.760	.01500	.40560	-.15200	.00000	.46380	-.40540
1.198	-.230	.01420	-.03120	.01590	.00000	.47010	-.36650

RUN NO. 95/ 0 RN/L = 6.67

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.247	-7.420	.01420	-.54190	.21040	.00000	.46930	-.439280
1.247	-4.980	.01410	-.35500	.13760	.00000	.46630	-.4120
1.247	-2.500	.01390	-.19130	.07530	.00000	.46530	-.36460
1.247	-.230	.01370	-.03580	.01960	.00000	.46430	-.35610
1.247	2.070	.01370	.10210	-.03350	.00000	.46120	-.35840
1.247	4.380	.01390	.24270	-.09030	.00000	.46270	-.37680
1.247	6.750	.01410	.39580	-.14850	.00000	.45700	-.38860
1.247	-.220	.01350	-.03100	.01710	.00000	.46340	-.35800

MSFC TWT610 (1A-71) 77-0.74-TS 213

(RIK131) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 98/ 0 RN/L = 6.50

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.456	-7.450	.01150	-.53930	.20630	.00000	.44580	-.29800
1.456	-5.020	.01140	-.36240	.13820	.00000	.44030	-.27550
1.456	-2.640	.01100	-.19940	.07670	.00000	.43740	-.27500
1.456	-.270	.01080	-.04080	.02190	.00000	.43650	-.27750
1.456	2.070	.01090	.09780	-.03120	.00000	.43380	-.27660
1.456	4.390	.01070	.23200	-.08390	.00000	.43050	-.28560
1.456	6.740	.01080	.37430	-.13620	.00000	.42950	-.28840
1.456	-.250	.01030	-.04790	.02260	.00000	.43460	-.27770

RUN NO. 105/ 0 RN/L = 7.05

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.967	-7.430	.00800	-.49970	.19460	.00000	.38950	-.20530
1.967	-5.030	.00800	-.34450	.13730	.00000	.38070	-.19170
1.967	-2.650	.00820	-.20810	.08910	.00000	.37700	-.19080
1.967	-.310	.00830	-.07850	.04360	.00000	.37640	-.19790
1.967	2.040	.00860	.05700	-.00520	.00000	.37000	-.20470
1.967	4.350	.00840	.18750	-.05940	.00000	.37210	-.20420
1.967	6.710	.00870	.33210	-.12040	.00000	.37610	-.20410
1.967	-.280	.00830	-.06950	.04140	.00000	.36890	-.19690

MSFC TWT610 (1A-71) 77-0.74-TS 213

(RIK132) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 82/ 0 RN/L = 5.91

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.799	-6.980	.01180	-.55900	.24760	.00000	.31570	-.30850
.799	-4.770	.01120	-.43150	.19480	.00000	.31430	-.29660
.799	-2.550	.01080	-.30200	.14870	.00000	.31140	-.30040
.799	-.350	.01050	-.17630	.10060	.00000	.30920	-.30750
.799	1.680	.01030	-.04970	.05990	.00000	.30300	-.30260
.799	4.120	.01040	.08700	.01400	.00000	.29660	-.30580
.799	6.330	.01030	.23080	-.04380	.00000	.28470	-.31030
.799	-.360	.01030	-.18180	.10310	.00000	.30870	-.30580

IA71 TABULATED SOURCE DATA

MSFC INT610 (IA-71) 77-0.7N-TS Z13 (RIK132) (18 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 83/ 0 RN/L = 6.28

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.902	-7.110	.01280	-.57710	.25690	.00000	.35120	-.34730
.902	-4.630	.01250	-.42900	.20580	.00000	.35020	-.33440
.902	-2.610	.01190	-.30040	.15090	.00000	.34590	-.33290
.902	-.370	.01180	-.18660	.09520	.00000	.34060	-.33480
.902	1.860	.01110	-.02170	.03130	.00000	.32990	-.32710
.902	4.110	.01130	.13180	-.03260	.00000	.32250	-.33230
.902	6.400	.01100	.28920	-.09360	.00000	.31780	-.34280
.902	-.370	.01140	-.16620	.09480	.00000	.34550	-.33690

RUN NO. 84/ 0 RN/L = 6.43

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.001	-7.190	.01970	-.59050	.27290	.00000	.49940	-.52500
1.001	-4.860	.01920	-.42920	.21450	.00000	.49810	-.51010
1.001	-2.540	.01860	-.28560	.16340	.00000	.49520	-.50610
1.001	-.270	.01830	-.14030	.10150	.00000	.48990	-.50300
1.001	2.010	.01840	.01750	.03520	.00000	.47760	-.49340
1.001	4.260	.01810	.16990	-.03660	.00000	.46230	-.49220
1.001	6.610	.01780	.33300	-.09830	.00000	.44450	-.49770
1.001	-.270	.01840	-.14150	.10220	.00000	.49090	-.50530

RUN NO. 85/ 0 RN/L = 6.57

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.051	-7.210	.01590	-.58270	.27110	.00000	.49780	-.49820
1.051	-4.860	.01550	-.42930	.21490	.00000	.49360	-.49370
1.051	-2.560	.01480	-.28710	.16330	.00000	.48840	-.49460
1.051	-.280	.01470	-.14400	.10360	.00000	.48450	-.49220
1.051	2.010	.01510	.01450	.03390	.00000	.47350	-.49170
1.051	4.250	.01520	.16110	-.03550	.00000	.46150	-.49690
1.051	6.620	.01510	.32730	-.09940	.00000	.44980	-.49350
1.051	-.280	.01470	-.14290	.10270	.00000	.48440	-.49360

MSFC TMT610 (IA-71) 77-0.74-TS 213 (RIK132) (15 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 06/ 0 RN/L = 6.63

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.106	-7.830	.01230	-.57300	.20040	.00000	.48230	-.37830
1.106	-4.670	.01180	-.41830	.20990	.00000	.47780	-.35910
1.106	-8.900	.01120	-.87720	.15770	.00000	.47230	-.34180
1.106	-.280	.01100	-.13410	.09510	.00000	.46540	-.33830
1.106	2.010	.01110	.02200	.02710	.00000	.45280	-.33110
1.106	4.280	.01060	.16970	-.04150	.00000	.44240	-.33640
1.106	6.630	.01050	.32720	-.10270	.00000	.43170	-.34580
1.106	-.280	.01160	-.13520	.09560	.00000	.46810	-.35880

RUN NO. 81/ 0 RN/L = 6.64

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.250	-7.370	.01530	-.56160	.23360	.00000	.48850	-.39350
1.250	-4.970	.01510	-.37880	.16080	.00000	.48260	-.37920
1.250	-2.590	.01480	-.21290	.09710	.00000	.48030	-.36170
1.250	-.230	.01480	-.05560	.03810	.00000	.47780	-.35430
1.250	2.090	.01490	.08330	-.01530	.00000	.47400	-.35960
1.250	4.390	.01460	.22590	-.07390	.00000	.46730	-.36410
1.250	6.750	.01510	.37670	-.13200	.00000	.46390	-.38000
1.250	-.210	.01430	-.04570	.03230	.00000	.47300	-.34450

RUN NO. 101/ 0 RN/L = 6.49

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.465	-7.440	.01210	-.55420	.22080	.00000	.45560	-.29800
1.465	-5.010	.01200	-.37370	.15070	.00000	.45050	-.27450
1.465	-2.630	.01160	-.21430	.09180	.00000	.44880	-.27590
1.465	-.260	.01140	-.06090	.03530	.00000	.44750	-.27550
1.465	2.090	.01150	.08870	-.01960	.00000	.44590	-.27720
1.465	4.390	.01120	.21920	-.06960	.00000	.44190	-.27860
1.465	6.750	.01150	.36160	-.12270	.00000	.43980	-.28720
1.465	-.230	.01130	-.05820	.03660	.00000	.44350	-.27840

MSFC TMT810 (1A-71) 77-0.74-TS 213 (RIK132) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 102/ 0 RN/L = 7.06

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.950	-7.450	.00800	-.51260	.20320	.00000	.39950	-.20430
1.950	-5.040	.00790	-.35740	.14710	.00000	.39140	-.19200
1.950	-2.850	.00800	-.21960	.09860	.00000	.38810	-.19100
1.950	-.310	.00820	-.08920	.05320	.00000	.38860	-.19870
1.950	2.030	.00850	.04440	.00460	.00000	.38150	-.20700
1.950	4.380	.00850	.18780	-.05510	.00000	.39540	-.20800
1.950	6.760	.00870	.34780	-.12170	.00000	.40310	-.20670
1.950	-2.290	.00820	-.08510	.05210	.00000	.38380	-.19910

MSFC TMT810 (1A-71) 77-0.74-TS 213 (RIK133) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 77/ 0 RN/L = 6.23

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
.904	-6.630	.01330	-.09920	.03800	.00000	.34210	-.38840
.904	-4.470	.01280	-.10700	.04510	.00000	.33840	-.37650
.904	-2.310	.01210	-.10970	.04810	.00000	.33260	-.36170
.904	-.160	.01170	-.11500	.03150	.00000	.32810	-.34850
.904	1.970	.01180	-.11210	.04940	.00000	.32910	-.32600
.904	4.130	.01210	-.10710	.04570	.00000	.33120	-.30950
.904	6.280	.01310	-.09990	.04140	.00000	.33860	-.29800
.904	-1.140	.01190	-.11780	.05380	.00000	.33260	-.35340

RUN NO. 76/ 0 RN/L = 6.53

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.052	-6.780	.01580	-.06830	.03950	.00000	.47291	-.47110
1.052	-4.530	.01530	-.07580	.04670	.00000	.47120	-.46860
1.052	-2.340	.01470	-.07730	.05170	.00000	.46700	-.45770
1.052	-.160	.01470	-.08850	.05940	.00000	.46580	-.44760
1.052	2.000	.01470	-.08490	.05890	.00000	.46780	-.43210
1.052	4.160	.01560	-.08620	.06080	.00000	.47300	-.42220
1.052	6.380	.01550	-.07460	.04960	.00000	.47220	-.38700
1.052	-1.160	.01550	-.09340	.06240	.00000	.46870	-.46070

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IA71 TABULATED SOURCE DATA

(RIK133) (16 APR 75)

MSFC TMT610 (IA-71) 77-0.7N-TS Z13

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 75/ 0 RN/L = 6.65

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.251	-6.640	.01510	-.05260	.02000	.00000	.48270	-.40880
1.251	-4.570	.01480	-.04750	.02130	.00000	.47510	-.39470
1.251	-2.360	.01440	-.04730	.02290	.00000	.46930	-.38940
1.251	-.150	.01460	-.05120	.02640	.00000	.46880	-.38580
1.251	2.040	.01470	-.05410	.03030	.00000	.47260	-.39000
1.251	4.270	.01480	-.05440	.02950	.00000	.47560	-.38450
1.251	6.500	.01570	-.05870	.02980	.00000	.48080	-.35760
1.251	-.140	.01460	-.05000	.02610	.00000	.46560	-.38550

RUN NO. 104/ 0 RN/L = 7.05

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.962	-6.660	.00930	-.07570	.03580	.00000	.38470	-.23140
1.962	-4.610	.00890	-.07630	.03800	.00000	.38110	-.22660
1.962	-2.350	.00890	-.08110	.04450	.00000	.37940	-.22420
1.962	-.140	.00860	-.08270	.04650	.00000	.38200	-.21860
1.962	2.080	.00840	-.07680	.04350	.00000	.37910	-.20940
1.962	4.300	.00840	-.07140	.03940	.00000	.38770	-.20000
1.962	6.560	.00880	-.07050	.03770	.00000	.38790	-.18900
1.962	-.130	.00860	-.08280	.04660	.00000	.37630	-.21750

MSFC TMT610 (IA-71) 77-0.7N-TS Z13

(RIK134) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 78/ 0 RN/L = 6.25

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
.907	-6.640	.01360	-.13410	.07400	.00000	.36257	-.39870
.907	-4.470	.01270	-.14830	.08440	.00000	.35800	-.37980
.907	-2.310	.01200	-.15360	.08910	.00000	.35270	-.37290
.907	-.160	.01170	-.16490	.09640	.00000	.34650	-.35930
.907	1.970	.01210	-.15810	.09170	.00000	.35080	-.35930
.907	4.140	.01260	-.15800	.09090	.00000	.35320	-.32510
.907	6.290	.01330	-.15050	.08660	.00000	.35830	-.30840
.907	-.160	.01180	-.16810	.09840	.00000	.35300	-.36510

1A71 TABULATED SOURCE DATA

MSFC TWTB10 (1A-71) 77-0.74-15 213 (RIK134) (18 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 79/ 0 RN/L = 6.52

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.049	-6.760	.01650	-.11250	.07690	.00000	.49050	-.48320
1.049	-4.520	.01560	-.11910	.08520	.00000	.48790	-.47410
1.049	-2.330	.01510	-.12400	.09130	.00000	.48570	-.46700
1.049	-.160	.01520	-.13290	.09720	.00000	.48280	-.45410
1.049	2.000	.01550	-.12980	.09700	.00000	.48680	-.44340
1.049	4.190	.01510	-.12510	.09300	.00000	.48670	-.40960
1.049	6.370	.01620	-.12250	.09040	.00000	.49000	-.39900
1.049	-.160	.01500	-.13060	.09540	.00000	.48260	-.45010

RUN NO. 80/ 0 RN/L = 6.64

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.252	-6.840	.01530	-.06630	.03480	.00000	.49300	-.41620
1.252	-4.580	.01490	-.06300	.03560	.00000	.48380	-.40130
1.252	-2.350	.01450	-.06270	.03760	.00000	.47800	-.39510
1.252	-.150	.01460	-.06450	.03990	.00000	.47670	-.39110
1.252	2.080	.01470	-.06760	.04360	.00000	.47940	-.39050
1.252	4.270	.01520	-.06870	.04360	.00000	.48560	-.37070
1.252	6.490	.01600	-.07120	.04380	.00000	.49120	-.36440
1.252	-.150	.01470	-.06350	.03990	.00000	.47710	-.39120

RUN NO. 103/ 0 RN/L = 7.06

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.956	-6.860	.00930	-.08530	.04510	.00000	.39240	-.23430
1.956	-4.610	.00880	-.08410	.04700	.00000	.39040	-.22850
1.956	-2.360	.00870	-.09070	.05350	.00000	.38870	-.22470
1.956	-.140	.00850	-.09300	.05590	.00000	.39240	-.22040
1.956	2.080	.00810	-.08650	.05330	.00000	.38660	-.20940
1.956	4.290	.00830	-.08000	.04870	.00000	.39390	-.20070
1.956	6.570	.00870	-.07960	.04590	.00000	.39820	-.18910
1.956	-.140	.00860	-.09190	.05560	.00000	.39150	-.22080

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1A71 TABULATED SOURCE DATA

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MSFC THT610 (1A-71) 77-0,7N-15STANDOFF FUEL LINE

(RIK135) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 109/ 0 RN/L = 6.27

MACH	BETA	CNEF	CNU	CLMU	CABF	CA	CPB2
.900	-6.850	.0140	-.03870	-.01410	.00000	.32660	-.30990
.900	-4.470	.01390	-.03840	-.01930	.00000	.33110	-.38010
.900	-2.310	.01280	-.04420	-.01190	.00000	.32380	-.36600
.900	-.160	.01270	-.04890	-.00870	.00000	.32260	-.34800
.900	1.960	.01240	-.03590	-.01460	.00000	.32110	-.31660
.900	4.110	.01260	-.03560	-.01570	.00000	.32350	-.30920
.900	6.260	.01350	-.01980	-.02380	.00000	.33190	-.28650
.900	-.160	.01170	-.04240	-.00990	.00000	.31400	-.32530

RUN NO. 110/ 0 RN/L = 6.56

MACH	BETA	CNEF	CNU	CLMU	CABF	CA	CPB2
1.047	-6.740	.01710	-.04240	.01450	.00000	.48920	-.48400
1.047	-4.510	.01690	-.04800	.02230	.00000	.46590	-.47430
1.047	-2.330	.01550	-.04950	.02660	.00000	.45980	-.46660
1.047	-.160	.01530	-.05050	.03380	.00000	.45760	-.45460
1.047	1.990	.01520	-.05800	.03310	.00000	.45800	-.43520
1.047	4.160	.01550	-.05020	.02940	.00000	.46270	-.41140
1.047	6.360	.01660	-.04380	.02380	.00000	.46860	-.40090
1.047	-.160	.01480	-.05810	.03130	.00000	.45520	-.44120

RUN NO. 111/ 0 RN/L = 6.70

MACH	BETA	CNEF	CNU	CLMU	CABF	CA	CPB2
1.248	-6.830	.01670	-.03310	.00740	.00000	.46840	-.41980
1.248	-4.570	.01590	-.03500	.01110	.00000	.47790	-.40710
1.248	-2.350	.01540	-.03380	.01100	.00000	.47270	-.40130
1.248	-.150	.01520	-.03480	.01330	.00000	.47080	-.39500
1.248	2.040	.01490	-.03600	.01830	.00000	.47420	-.39360
1.248	4.250	.01500	-.03610	.01450	.00000	.47220	-.36830
1.248	6.490	.01590	-.03680	.01250	.00000	.47910	-.35780
1.248	-.140	.01480	-.03570	.01190	.00000	.46540	-.38750

IA71 TABULATED SOURCE DATA

MSFC TW610 (IA-71) 77-0.74-TS Z10 (RIK136) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 8/ 0 RN/L = 6.61

MACH	BETA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.050	-6.460	.01960	-.06700	.03440	.00000	.47320	-.48480
1.050	-4.310	.01960	-.06630	.04470	.00000	.47980	-.45060
1.050	-2.230	.01960	-.07740	.05940	.00000	.47450	-.44880
1.050	-.170	.01930	-.08670	.06130	.00000	.47580	-.43940
1.050	1.870	.01600	-.06950	.06230	.00000	.47330	-.42340
1.050	3.930	.01960	-.08110	.05950	.00000	.47340	-.38100
1.050	6.030	.01680	-.07470	.04880	.00000	.47340	-.36630
1.050	-.170	.01640	-.08670	.06110	.00000	.47580	-.44040

MSFC TW610 (IA-71) 77-0.74-TS Z10

(RIK137) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 70/ 0 RN/L = 6.34

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
.949	-7.170	.01320	-.56480	.24310	.00000	.38560	-.38000
.949	-4.850	.01220	-.42020	.19490	.00000	.38000	-.36370
.949	-2.580	.01200	-.28550	.14820	.00000	.37790	-.35660
.949	-.340	.01180	-.15580	.09470	.00000	.37540	-.36250
.949	1.900	.01190	-.01250	.03430	.00000	.36440	-.34800
.949	4.140	.01190	.12970	-.02940	.00000	.35850	-.34850
.949	6.470	.01210	.28580	-.08600	.00000	.35940	-.36710
.949	-.320	.01240	-.14510	.09070	.00000	.38900	-.37680

RUN NO. 71/ 0 RN/L = 6.61

MACH	ALPHA	CNBF	CNU	CLMU	CABF	CA	CPB2
1.149	-7.340	.01680	-.59930	.26840	.00000	.52007	-.45130
1.149	-4.930	.01650	-.42150	.20080	.00000	.51280	-.42940
1.149	-2.570	.01640	-.25350	.13440	.00000	.50870	-.41400
1.149	-.240	.01620	-.09940	.07280	.00000	.50320	-.40370
1.149	2.070	.01620	.05760	.00680	.00000	.49380	-.39690
1.149	4.380	.01620	.20630	-.05620	.00000	.48750	-.40780
1.149	6.740	.01640	.36600	-.11170	.00000	.48370	-.41830
1.149	-.230	.01630	-.09450	.07080	.00000	.50240	-.40530

IA71 TABULATED SOURCE DATA

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MSFC TWT610 (IA-71) 77-0.74-TS Z10

(RIK137) (18 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 89/ 0 RN/L = 8.84

MACH	ALPHA	CNBF	CNU	CLNU	CABF	CA	CPB2
1.197	-7.390	.01590	-.57600	.24280	.00000	.50200	-.41330
1.197	-4.980	.01550	-.36470	.16510	.00000	.49310	-.39780
1.197	-2.580	.01510	-.21090	.09540	.00000	.46800	-.37680
1.197	-.230	.01480	-.05390	.03510	.00000	.48470	-.37260
1.197	2.070	.01480	.08660	-.01900	.00000	.47940	-.37140
1.197	4.380	.01500	.22860	-.07560	.00000	.47610	-.36850
1.197	6.760	.01520	.36390	-.13330	.00000	.47090	-.36920
1.197	-.220	.01470	-.05350	.03650	.00000	.48420	-.35760

RUN NO. 108/ 0 RN/L = 6.49

MACH	ALPHA	CNBF	CNU	CLNU	CABF	CA	CPB2
1.462	-7.460	.01140	-.55360	.21740	.00000	.45300	-.29500
1.462	-5.020	.01140	-.37130	.14710	.00000	.44540	-.27230
1.462	-2.640	.01110	-.21210	.08730	.00000	.44180	-.27390
1.462	-.280	.01090	-.06010	.03160	.00000	.44010	-.27690
1.462	2.080	.01080	.09010	-.02270	.00000	.43810	-.27260
1.462	4.380	.01060	.22250	.07560	.00000	.43360	-.27960
1.462	6.740	.01090	.36580	-.12810	.00000	.43250	-.26920
1.462	-.250	.01060	-.05660	.03050	.00000	.43900	-.27460

MSFC TWT610 (IA-71) 74-OTS (STEEL)

(RIK201) (18 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 301/ 0 RN/L = 5.86

MACH	ALPHA	CHCO	CHET
.799	-7.040	.03320	.04450
.799	-4.840	.03920	.04260
.799	-2.600	.03000	.04250
.799	-.400	.03650	.04580
.799	1.820	.03690	.04800
.799	4.050	.03670	.04930
.799	6.290	.02940	.04870
.799	-.410	.03400	.04570

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 74-OTS (STEEL)

(RIK201) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 302/ 1 RN/L = 6.27

MACH	ALPHA	CHEO	CHEI
.901	-7.260	.04510	.01720
.901	-4.960	.04160	.01490
.901	-2.730	.03970	.01540
.901	-1.500	.03970	.01580
.901	1.740	.03790	.01870
.901	3.970	.03970	.02140
.901	6.270	.03560	.02070
.901	-1.490	.03890	.01670

RUN NO. 303/ 2 RN/L = 6.52

MACH	ALPHA	CHEO	CHEI
.998	-7.300	.09720	.08780
.998	-4.960	.09580	.08050
.998	-2.680	.09620	.07780
.998	-1.410	.09420	.08040
.998	1.830	.07950	.06930
.998	4.090	.06280	.06390
.998	6.380	.04760	.05760
.998	-1.410	.09190	.07460

RUN NO. 304/ 1 RN/L = 6.57

MACH	ALPHA	CHEO	CHEI
1.052	-7.340	.09510	.07950
1.052	-5.000	.09500	.07550
1.052	-2.670	.09590	.07390
1.052	-1.390	.09010	.07160
1.052	1.880	.07320	.06510
1.052	4.120	.05700	.05780
1.052	6.450	.04450	.05800
1.052	-1.370	.08930	.07140

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IA71 TABULATED SOURCE DATA

(RIK201) (16 APR 75)

MSFC THTB10 (IA-71) 7N-OTS (STEEL)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 305/ 0 RV/L = 6.64

MACH	ALPHA	CHEO	CHEI
1.102	-7.290	.09540	.12400
1.102	-4.920	.09540	.12150
1.102	-2.600	.09710	.11710
1.102	-.300	.08420	.11660
1.102	2.000	.08510	.10880
1.102	4.260	.04720	.09810
1.102	6.600	.02980	.08940
1.102	-.300	.08310	.11550

RUN NO. 306/ 1 RV/L = 6.68

MACH	ALPHA	CHEO	CHEI
1.248	-7.500	.07630	.12230
1.248	-5.080	.06190	.11880
1.248	-2.690	.04890	.11430
1.248	-.350	.03340	.11100
1.248	1.970	.01770	.11110
1.248	4.270	-.00010	.10380
1.248	6.610	-.01880	.09370
1.248	-.320	.02420	.10830

RUN NO. 318/ 0 RV/L = 6.49

MACH	ALPHA	CHEO	CHEI
1.462	-7.490	.03850	.12000
1.462	-5.060	.01690	.11120
1.462	-2.680	-.00540	.10300
1.462	-.310	-.02070	.09510
1.462	2.040	-.03160	.09230
1.462	4.330	-.04150	.08750
1.462	6.690	-.05220	.07450
1.462	-.300	-.02380	.09270

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 74-OTS (STEEL)

(RIK201) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 317/ 0 RN/L = 7.08

MACH	ALPHA	CHEO	CHEI
1.961	-7.490	-.00280	.06100
1.961	-5.080	-.01510	.05190
1.961	-2.720	-.02900	.04280
1.961	-.370	-.04700	.03190
1.961	1.980	-.06090	.02130
1.961	4.300	-.07290	.01640
1.961	6.680	-.07290	.01220
1.961	-.340	-.04920	.02710

MSFC TWT610 (1A-71) 74-OTS (STEEL)

(RIK202) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 307/ 0 RN/L = 8.58

MACH	BETA	CHEO	CHEI
1.047	-6.410	.06240	.13020
1.047	-4.320	.06920	.11140
1.047	-2.250	.08150	.10480
1.047	-.190	.08870	.10030
1.047	1.850	.08930	.07510
1.047	3.900	.08310	.06240
1.047	6.000	.07450	.05110
1.047	-.190	.09020	.09710

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1A71 TABULATED SOURCE DATA

MSFC INT610 (1A-71) 74-OTS Z10 (RIK203) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 312/ 0 RN/L = 5.96

MACH	ALPHA	CHEO	CHEI
.798	-7.090	.01080	-.03140
.798	-4.880	.02650	-.03100
.798	-2.650	.02920	-.02880
.798	-.450	.03410	-.02560
.798	1.780	.02780	-.02040
.798	3.980	.02800	-.01240
.798	6.230	.02680	-.01000
.798	-.450	.03410	-.02420

RUN NO. 311/ 0 RN/L = 6.30

MACH	ALPHA	CHEO	CHEI
.901	-7.230	.03360	-.00950
.901	-4.930	.03720	-.00720
.901	-2.710	.03790	-.01020
.901	-.470	.04000	-.00830
.901	1.750	.03010	-.00280
.901	3.980	.02840	-.00320
.901	6.310	.02570	-.00340
.901	-.470	.03980	-.00640

RUN NO. 310/ 1 RN/L = 6.51

MACH	ALPHA	CHEO	CHEI
.995	-7.230	.00330	.00940
.995	-4.910	.00160	.01130
.995	-2.630	.00050	.01550
.995	-.390	.00080	.01790
.995	1.860	-.00890	.01830
.995	4.120	-.00900	.01180
.995	6.440	-.01080	.00300
.995	-.380	.00000	.01800

1A71 TABULATED SOURCE DATA

MEFC TMT610 (1A-71) 7N-QTS Z10 (RIK203) (18 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
 FLIPOR = 40.000

RUN NO. 309/ 0 RN/L = 6.59

MACH	ALPHA	CHEO	CHEI
1.053	-7.290	-.00210	.01010
1.053	-4.950	-.00290	.01420
1.053	-2.650	-.00350	.01770
1.053	-.360	-.00510	.02110
1.053	1.880	-.01140	.01930
1.053	4.160	-.01420	.00830
1.053	6.500	-.01460	.00040
1.053	-.360	-.00580	.02070

RUN NO. 313/ 0 RN/L = 6.66

MACH	ALPHA	CHEO	CHEI
1.109	-7.360	-.01920	.01180
1.109	-4.970	-.01890	.01720
1.109	-2.650	-.02050	.02210
1.109	-.330	-.02150	.02680
1.109	1.950	-.02270	.02320
1.109	4.250	-.01990	.01350
1.109	6.590	-.01780	.00420
1.109	-.330	-.02170	.02660

RUN NO. 314/ 0 RN/L = 6.72

MACH	ALPHA	CHEO	CHEI
1.250	-7.450	-.03270	.04300
1.250	-5.010	-.02590	.04460
1.250	-2.630	-.01810	.04940
1.250	-.270	-.01460	.04410
1.250	2.050	-.01770	.04250
1.250	4.350	-.02210	.03870
1.250	6.710	-.03110	.03610
1.250	-.250	-.01780	.04130

IA71 TABULATED SOURCE DATA

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MSFC TWT610 (1A-71) 74-OTS Z10

(RIK203) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 315/ 0 RN/L = 6.49

MACH	ALPHA	CHEO	CHEI
1.472	-7.470	-.00620	.05440
1.472	-5.070	-.01430	.04800
1.472	-2.660	-.02500	.04460
1.472	-.310	-.03140	.04220
1.472	2.050	-.03400	.04250
1.472	4.350	-.03770	.04170
1.472	6.700	-.04320	.03450
1.472	-.290	-.03370	.04180

RUN NO. 316/ 0 RN/L = 7.08

MACH	ALPHA	CHEO	CHEI
1.954	-7.530	-.01820	.03710
1.954	-5.110	-.02530	.02980
1.954	-2.730	-.03510	.02190
1.954	-.370	-.04910	.01240
1.954	1.980	-.06010	.00240
1.954	4.320	-.07160	-.00110
1.954	6.660	-.07070	-.00460
1.954	-.330	-.04980	.00730

MSFC TWT610 (1A-71) 74-OTS Z10

(RIK204) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 308/ 0 RN/L = 6.58

MACH	BETA	CHEO	CHEI
1.048	-6.420	-.01010	.00900
1.048	-4.310	-.00700	.01410
1.048	-2.240	-.00340	.02100
1.048	-.180	-.00420	.02160
1.048	1.860	-.00010	.00640
1.048	3.930	-.00050	-.00030
1.048	6.030	-.00190	-.01240
1.048	-.180	-.00390	.01990

1A71 TABULATED SOURCE DATA

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MSFC TWT810 (1A-71) 74-OTS Z10

(RIK205) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 325/ 0 RN/L = 5.91

MACH	ALPHA	CHEO	CHEI
.799	-7.150	.01750	-.01420
.799	-4.940	.02100	-.01010
.799	-2.720	.02250	-.00550
.799	-.530	.02530	-.00080
.799	1.710	.02480	.00240
.799	3.940	.02370	.00070
.799	6.170	.02000	-.00160
.799	-.500	.02610	-.00170

RUN NO. 324/ 1 RN/L = 6.28

MACH	ALPHA	CHEO	CHEI
.903	-7.260	.02140	-.01180
.903	-4.980	.02190	-.00980
.903	-2.750	.02030	-.00930
.903	-.520	.02220	-.00510
.903	1.720	.02280	-.00140
.903	3.950	.01690	-.00030
.903	6.250	.01470	-.00370
.903	-.500	.01970	-.00580

RUN NO. 323/ 0 RN/L = 6.37

MACH	ALPHA	CHEO	CHEI
.952	-7.330	.00810	-.00620
.952	-5.000	.01180	-.00320
.952	-2.740	.01080	-.00060
.952	-.480	.01020	-.00060
.952	1.770	.00510	-.00180
.952	4.010	.00940	-.00330
.952	6.290	.01250	-.00260
.952	-.470	.00960	.00200

1A71 TABULATED SOURCE DATA

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MSFC THT610 (1A-71) 74-OTS Z10

(RIK205) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 321/ 3 RN/L = 6.53

MACH	ALPHA	CHEO	CHEI
1.000	-7.310	.00000	.00600
1.000	-4.980	-.00010	.00680
1.000	-2.700	.00000	.00780
1.000	-.440	-.00060	.00810
1.000	1.800	.00010	.00150
1.000	4.060	.00400	-.00110
1.000	8.370	.00920	-.00640
1.000	-4.30	-.00030	.00560

RUN NO. 326/ 1 RN/L = 6.56

MACH	ALPHA	CHEO	CHEI
1.052	-7.380	-.00140	.01170
1.052	-5.010	-.00170	.01180
1.052	-2.710	-.00130	.01270
1.052	-.410	-.00030	.01140
1.052	1.840	.00290	.00590
1.052	4.100	.00860	.00110
1.052	6.450	.01190	-.00050
1.052	-.400	-.00100	.00940

RUN NO. 327/ 0 RN/L = 6.60

MACH	ALPHA	CHEO	CHEI
1.105	-7.410	-.00910	.03010
1.105	-5.030	-.00980	.03040
1.105	-2.720	-.00840	.03110
1.105	-.410	-.00370	.03100
1.105	1.890	.00320	.02820
1.105	4.170	.00570	.02040
1.105	6.510	.00350	.01670
1.105	-.400	-.00360	.03050

1A71 TABULATED SOURCE DATA

MSFC TWT810 (1A-71) 7N-OTS 210 (RIK205) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
 FLIPOR = 20.000

RUN NO. 328/ 0 RN/L = 6.61

MACH	ALPHA	CHEO	CHEI
1.151	-7.510	-.01100	.04880
1.151	-5.120	-.01070	.04830
1.151	-2.740	-.00410	.04980
1.151	-.400	.00720	.05340
1.151	1.900	.00890	.05070
1.151	4.190	.00640	.04150
1.151	6.550	-.00200	.03530
1.151	-.390	.00740	.05340

RUN NO. 329/ 0 RN/L = 6.64

MACH	ALPHA	CHEO	CHEI
1.200	-7.510	-.00370	.06760
1.200	-5.080	.00420	.06490
1.200	-2.710	.00980	.06350
1.200	-.350	.00870	.06430
1.200	1.970	.00380	.06210
1.200	4.270	-.00650	.05590
1.200	6.620	-.01960	.05310
1.200	-.340	.00790	.06430

RUN NO. 320/ 0 RN/L = 6.71

MACH	ALPHA	CHEO	CHEI
1.249	-7.450	.00290	.06810
1.249	-5.030	.00580	.06800
1.249	-2.630	.00780	.06680
1.249	-.270	.00660	.06520
1.249	2.050	-.00010	.06530
1.249	4.350	-.01230	.06190
1.249	6.710	-.02740	.05750
1.249	-.250	.00150	.06390

1A71 TABULATED SOURCE DATA

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MSFC TWT610 (1A-71) 7N-OTS Z10

(RIK205) (18 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 319/ 0 RN/L = 6.53

MACH	ALPHA	CHEO	CHEI
1.460	-7.490	.01110	.07820
1.460	-5.060	-.00260	.07340
1.460	-2.680	-.01540	.06710
1.460	-.320	-.02380	.06270
1.460	2.030	-.03020	.05960
1.460	4.330	-.03710	.05490
1.460	6.690	-.04470	.04840
1.460	-.290	-.02810	.06090

RUN NO. 320/ 0 RN/L = 7.02

MACH	ALPHA	CHEO	CHEI
1.963	-7.560	-.01760	.04650
1.963	-5.150	-.02460	.03890
1.963	-2.790	-.03210	.02970
1.963	-.450	-.04330	.01970
1.963	1.690	-.05260	.00910
1.963	4.210	-.05990	.00610
1.963	6.560	-.05980	.00190
1.963	-.430	-.04560	.01780

MSFC TWT610 (1A-71) 7N-OTS Z10

(RIK206) (18 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 331/ 0 RN/L = 6.25

MACH	BETA	CHEO	CHEI
.899	-6.560	.01980	.00460
.899	-4.420	.02520	.00210
.899	-2.270	.02780	.00100
.899	-.140	.02830	-.00140
.899	2.000	.03310	-.01290
.899	4.130	.03430	-.01660
.899	6.290	.02630	-.02450
.899	-.120	.02860	-.00230

(RIK206) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 20.000

1A71 TABULATED SOURCE DATA

MSFC TWB10 (1A-71) 74-OTS Z10

RUN NO. 330/ 0 RN/L = 6.53

MACH	BETA	CHEO	CHEI
1.050	-6.870	-.00130	-.00360
1.050	-4.460	-.00020	.00360
1.050	-2.300	-.00060	.00990
1.050	-.150	-.00220	.01120
1.050	2.000	-.00040	.00740
1.050	4.150	.00260	.00670
1.050	6.310	.00360	-.00020
1.050	-.130	-.00230	.01110

RUN NO. 332/ 1 RN/L = 6.67

MACH	BETA	CHEO	CHEI
1.251	-6.750	.01060	.05780
1.251	-4.540	.01640	.05210
1.251	-2.330	.01740	.04600
1.251	-.150	.01530	.04180
1.251	2.020	.00860	.02350
1.251	4.200	.00310	.02290
1.251	6.390	.00210	.01730
1.251	-.150	.01800	.03970

RUN NO. 351/ 0 RN/L = 6.54

MACH	BETA	CHEO	CHEI
1.460	-6.780	-.03750	.05670
1.460	-4.530	-.03650	.05680
1.460	-2.330	-.03400	.05450
1.460	-.130	-.02920	.05430
1.460	2.060	-.02150	.05280
1.460	4.230	-.01390	.05270
1.460	6.460	-.00910	.04740
1.460	-.140	-.02980	.05340

1A71 TABULATED SOURCE DATA

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MSFC THT610 (1A-71) 74-OTS Z10

(RIK207) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 338/ 0 RN/L = 6.39

MACH	ALPHA	CHEO	CHEI
.950	-7.300	.06830	.03710
.950	-4.980	.06710	.03180
.950	-2.720	.06820	.03190
.950	-4.70	.05060	.01880
.950	1.780	.04030	.01700
.950	4.030	.04120	.02230
.950	6.300	.03530	.02890
.950	-4.460	.06140	.02740

RUN NO. 339/ 0 RN/L = 6.67

MACH	ALPHA	CHEO	CHEI
1.149	-7.480	.08480	.12290
1.149	-5.080	.08690	.11900
1.149	-2.720	.08490	.11990
1.149	-3.380	.06900	.12020
1.149	1.910	.05200	.11420
1.149	4.220	.03450	.10590
1.149	6.560	.01510	.09500
1.149	-3.370	.06650	.11900

RUN NO. 340/ 0 RN/L = 6.66

MACH	ALPHA	CHEO	CHEI
1.201	-7.500	.08150	.12780
1.201	-5.070	.06700	.12150
1.201	-2.710	.05090	.11540
1.201	-3.340	.03430	.11950
1.201	1.960	.01530	.11510
1.201	4.280	-.00010	.10580
1.201	6.620	-.01960	.09530
1.201	-3.320	.03190	.11550

IA71 TABULATED SOURCE DATA

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MSFC TWT610 (1A-71) 74-OTS Z10

(RIK207) (16 APR 75)

PARAMETRIC DATA

BETA = .00 ORBINC = .000
FLIPDR = .000

RUN NO. 322/ 0 RN/L = 6.71

MACH	ALPHA	CHEO	CHEI
1.251	-7.440	.07780	.14110
1.251	-5.030	.06050	.13660
1.251	-2.630	.04440	.13190
1.251	-.260	.02830	.12880
1.251	2.070	.01280	.12720
1.251	4.370	-.00320	.12160
1.251	6.710	-.02260	.11210
1.251	-.250	.02070	.12570

MSFC TWT610 (1A-71) 74-OTS Z10

(RIK208) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 336/ 0 RN/L = 6.28

MACH	BETA	CHEO	CHEI
.903	-6.570	.04710	.05850
.903	-4.430	.04670	.04760
.903	-2.270	.04340	.03680
.903	-.140	.03980	.02190
.903	1.990	.03180	.00420
.903	4.120	.02040	-.00400
.903	6.260	.01610	-.00840
.903	-.140	.03930	.01560

RUN NO. 337/ 0 RN/L = 6.41

MACH	BETA	CHEO	CHEI
.953	-6.590	.05550	.07040
.953	-4.440	.05240	.04510
.953	-2.280	.05540	.03620
.953	-.140	.06500	.03230
.953	1.980	.05400	.00980
.953	4.110	.04310	-.00060
.953	6.270	.03320	-.00870
.953	-.140	.06610	.03240

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 7N-OYS 210

(R1K208) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
 FLIPDR = .000

RUN NO. 353/ 0 RN/L = 8.50

MACH	BETA	CHEO	CHEI
.993	-6.630	.06430	.10350
.993	-4.450	.06880	.08840
.993	-2.290	.07760	.08160
.993	-.150	.08730	.07800
.993	1.960	.08060	.04830
.993	4.100	.07600	.03930
.993	6.260	.06400	.02510
.993	-.150	.08770	.07460

RUN NO. 354/ 0 RN/L = 8.65

MACH	BETA	CHEO	CHEI
1.100	-5.680	.05260	.12970
1.100	-4.470	.06280	.12130
1.100	-2.300	.07130	.11720
1.100	-.140	.07870	.11090
1.100	1.990	.08420	.08430
1.100	4.160	.08410	.07210
1.100	6.330	.07840	.05980
1.100	-.120	.07940	.10740

RUN NO. 335/ 0 RN/L = 6.67

MACH	BETA	CHEO	CHEI
1.152	-6.750	.02620	.14320
1.152	-4.520	.04160	.13180
1.152	-2.330	.05570	.12400
1.152	-.170	.06530	.11430
1.152	2.020	.07330	.09030
1.152	4.190	.08020	.08060
1.152	6.380	.08200	.06970
1.152	-.140	.06680	.11320

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
 FLIPOR = .000

RUN NO. 334/ 0 RN/L = 6.68

MACH	BETA	CHEO	CHEI
1.197	-6.690	.05020	.13220
1.197	-4.481	.05890	.12070
1.197	-2.310	.06880	.11420
1.197	-.150	.07620	.10600
1.197	2.010	.08110	.07870
1.197	4.150	.08150	.07000
1.197	6.340	.07730	.05910
1.197	-.120	.07680	.10580

RUN NO. 333/ 0 RN/L = 6.68

MACH	BETA	CHEO	CHEI
1.249	-6.750	.01940	.13280
1.249	-4.530	.03360	.12600
1.249	-2.320	.05110	.11560
1.249	-.150	.06220	.10230
1.249	2.010	.06980	.07570
1.249	4.190	.07540	.06540
1.249	6.400	.07280	.05430
1.249	-.140	.06300	.10050

RUN NO. 352/ 0 RN/L = 6.54

MACH	BETA	CHEO	CHEI
1.458	-6.790	-.04100	.09050
1.458	-4.540	-.03920	.09620
1.458	-2.330	-.03490	.09230
1.458	-.140	-.02650	.09630
1.458	2.040	-.01350	.09580
1.458	4.230	.00250	.09610
1.458	6.460	.01720	.08970
1.458	-.120	-.02350	.09650

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1A71 TABULATED SOURCE DATA

MSFC TW610 (1A-71) 7N-QTS Z10

(RIK209) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 10.000

RUN NO. 347/ 0 RN/L = 6.60

MACH	BETA	CHEO	CHEI
1.047	-6.670	.02780	.03470
1.047	-4.470	.02220	.03080
1.047	-2.300	.01760	.03350
1.047	-.150	.01390	.03390
1.047	1.980	.00980	.02220
1.047	4.130	.00770	.02370
1.047	6.310	.03640	.01780
1.047	-.150	.01320	.03240

MSFC TW610 (1A-71) 77-0.7N-TS

(RIK210) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 10.000

RUN NO. 345/ 0 RN/L = 5.94

MACH	ALPHA	CHEO	CHEI
.799	-7.130	.00480	-.00461
.799	-4.920	.00790	-.00390
.799	-2.710	.01110	-.00200
.799	-.510	.01500	.00040
.799	1.720	.01590	.00190
.799	3.960	.01420	.00100
.799	6.180	.01020	-.00080
.799	-.490	.01420	.00000

RUN NO. 344/ 0 RN/L = 6.29

MACH	ALPHA	CHEO	CHEI
.907	-7.270	.00660	-.01140
.907	-4.970	.00820	-.01030
.907	-2.740	.00730	-.01130
.907	-.510	.01030	-.00730
.907	1.740	.01430	-.00490
.907	3.980	.01630	-.00510
.907	6.260	.02530	-.00650
.907	-.490	.01010	-.00640

1A71 TABULATED SOURCE DATA

(R1K210) (16 APR 75)

MSFC TW610 (1A-71) 77-0.74-TS

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO. 343/ 0 RN/L = 6.48

MACH	ALPHA	CHEO	CHEI
.995	-7.300	.01150	.03500
.995	-4.970	.00920	.03200
.995	-2.690	.00900	.02960
.995	-4.30	.01020	.02940
.995	1.810	.01950	.02260
.995	4.070	.02510	.02010
.995	6.370	.02970	.01540
.995	-4.20	.01020	.02630

RUN NO. 346/ 0 RN/L = 6.59

MACH	ALPHA	CHEO	CHEI
1.045	-7.350	.01340	.04950
1.045	-5.010	.01060	.04440
1.045	-2.700	.01110	.04020
1.045	-4.10	.01150	.03570
1.045	1.840	.01770	.03080
1.045	4.110	.02830	.02750
1.045	6.450	.02780	.02520
1.045	-4.00	.01220	.03480

RUN NO. 342/ 0 RN/L = 6.64

MACH	ALPHA	CHEO	CHEI
1.106	-7.470	.01120	.06950
1.106	-5.080	.01150	.06640
1.106	-2.740	.02220	.06390
1.106	-4.00	.03220	.06380
1.106	1.910	.03100	.05940
1.106	4.200	.02070	.04920
1.106	6.550	.00590	.04410
1.106	-3.80	.03210	.06210

1A71 TABULATED SOURCE DATA

MSFC TMT610 (1A-71) 77-0.7N-TS (RIK210) (18 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
 FLIPOR = 10.000

RUN NO. 341/ 0 RN/L = 6.69

MACH	ALPHA	CHEO	CHEI
1.250	-7.510	.02350	.10710
1.250	-5.080	.02400	.10300
1.250	-2.710	.02290	.10100
1.250	-.350	.01560	.09910
1.250	1.980	.00280	.09790
1.250	4.280	-.01080	.09190
1.250	6.620	-.02670	.07940
1.250	-.310	.01330	.09930

RUN NO. 348/ 0 RN/L = 6.53

MACH	ALPHA	CHEO	CHEI
1.463	-7.570	.01810	.10100
1.463	-5.140	.00390	.09390
1.463	-2.760	-.01000	.08630
1.463	-.400	-.02050	.07850
1.463	1.980	-.02740	.07520
1.463	4.260	-.03660	.07000
1.463	6.610	-.04650	.05920
1.463	-.380	-.02620	.07560

RUN NO. 349/ 0 RN/L = 7.05

MACH	ALPHA	CHEO	CHEI
1.956	-7.600	-.01130	.05700
1.956	-5.180	-.02010	.04750
1.956	-2.810	-.03070	.03820
1.956	-.460	-.04410	.02800
1.956	1.880	-.05520	.01930
1.956	4.200	-.06440	.01320
1.956	6.560	-.06420	.00850
1.956	-.440	-.04790	.02500

IA71 TABULATED SOURCE DATA

MSFC TWT810 (IA-71) 77-0,74-TS (RIK211) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 1/0 RN/L = 4.94

MACH	ALPHA	CNW	CBW	CTW
.599	-6.830	-.08650	-.01630	-.01010
.599	-4.690	-.05770	-.01090	-.00490
.599	-2.950	-.03300	-.00840	.00030
.599	-1.420	-.00710	-.00130	.00530
.599	1.710	.01720	.00330	.01070
.599	3.850	.04110	.00790	.01660
.599	6.010	.06690	.01290	.02240
.599	-4.30	-.01630	-.00290	.00430

RUN NO. 2/1 RN/L = 5.95

MACH	ALPHA	CNW	CBW	CTW
.798	-6.990	-.07080	-.01360	-.00690
.798	-4.780	-.03730	-.00740	-.00110
.798	-2.560	-.00670	-.00190	.00480
.798	-1.310	.02390	.00380	.01160
.798	1.870	.05880	.01050	.01820
.798	4.120	.08830	.01600	.02490
.798	6.340	.11560	.02120	.03060
.798	-3.360	.02450	.00390	.01170

RUN NO. 3/1 RN/L = 6.30

MACH	ALPHA	CNW	CBW	CTW
.900	-7.120	-.06480	-.01250	-.00500
.900	-4.810	-.02530	-.00510	.00030
.900	-2.610	.01310	.00210	.00530
.900	-1.370	.05190	.00940	.01110
.900	1.860	.09410	.01760	.01710
.900	4.120	.13170	.02450	.02280
.900	6.420	.14500	.02660	.02820
.900	-3.360	.05620	.01030	.01160

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1A71 TABULATED SOURCE DATA

MSFC TWT810 (1A-71) 77-0.74-TS

(RIK211) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 4/ 0 RN/L = 6.51

MACH	ALPHA	CNW	CBW	CTW
.994	-7.140	-.08030	-.01480	-.00030
.994	-4.810	-.04250	-.00760	.00460
.994	-2.520	-.00410	-.00080	.00980
.994	-.280	.03500	.00890	.01820
.994	1.980	.07730	.01500	.01960
.994	4.220	.11780	.02290	.02440
.994	6.520	.15600	.03010	.02870
.994	-.280	.04050	.00780	.01570

RUN NO. 5/ 0 RN/L = 6.58

MACH	ALPHA	CNW	CBW	CTW
1.046	-7.200	-.08450	-.01500	.00000
1.046	-4.850	-.04660	-.00800	.00510
1.046	-2.540	-.00840	-.00100	.01040
1.046	-.280	.03180	.00660	.01540
1.046	2.010	.07320	.01450	.02010
1.046	4.280	.11400	.02250	.02480
1.046	6.620	.15290	.03020	.02840
1.046	-.270	.03630	.00740	.01600

RUN NO. 6/ 0 RN/L = 6.65

MACH	ALPHA	CNW	CBW	CTW
1.104	-7.250	-.08290	-.01450	.00020
1.104	-4.870	-.04480	-.00740	.00520
1.104	-2.550	-.00420	.00000	.01060
1.104	-.270	.03660	.00770	.01590
1.104	2.020	.07870	.01570	.02070
1.104	4.300	.11930	.02370	.02460
1.104	6.660	.15740	.03120	.02770
1.104	-.260	.04130	.00850	.01650

IA71 TABULATED SOURCE DATA

MSFC INT610 (IA-71) 77-0, 74-75

(RIK211) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 7/ 0 RN/L = 6.69

MACH	ALPHA	CNW	CBW	CTW
1.252	-7.380	-.05820	-.01070	.00070
1.252	-4.950	-.01240	-.00170	.00410
1.252	-2.580	.03270	.00680	.00880
1.252	-.220	.07530	.01480	.01380
1.252	2.100	.11300	.02180	.01890
1.252	4.420	.14510	.02800	.02330
1.252	6.770	.17490	.03370	.02670
1.252	-.200	.07960	.01560	.01420

RUN NO. 20/ 0 RN/L = 6.53

MACH	ALPHA	CNW	CBW	CTW
1.461	-7.430	-.05410	-.01010	-.00350
1.461	-5.300	-.01600	-.00280	-.00160
1.461	-2.620	.02430	.00480	.00120
1.461	-.260	.06540	.01260	.00540
1.461	2.080	.10440	.01970	.01070
1.461	4.390	.13640	.02550	.01570
1.461	6.750	.16310	.03350	.01950
1.461	-.240	.06810	.01310	.00550

RUN NO. 21/ 1 RN/L = 7.05

MACH	ALPHA	CNW	CBW	CTW
1.958	-7.450	-.03870	-.00780	-.00350
1.958	-5.060	-.01980	-.00440	-.00280
1.958	-2.680	-.00070	-.00090	-.00190
1.958	-.340	.02600	.00370	-.00060
1.958	2.000	.05470	.00880	.00110
1.958	4.320	.08700	.01470	.00350
1.958	6.720	.12590	.02210	.00860
1.958	-.330	.02990	.00440	-.00020

IA71 TABULATED SOURCE DATA

MSFC TWT610 (IA-71) 77-0.74-TS

(RIK212) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 38/ 0 RN/L = 6.31

MACH	ALPHA	CNW	CBW	CTW
.899	-7.130	-.05280	-.01020	-.01020
.899	-4.840	-.01820	-.00360	-.00430
.899	-2.620	.01700	.00280	.00160
.899	-.380	.05010	.00890	.00900
.899	1.860	.08980	.01660	.01550
.899	4.110	.11670	.02150	.02240
.899	6.390	.13490	.02450	.02770
.899	-.380	.05040	.00910	.00930

RUN NO. 67/ 0 RN/L = 6.37

MACH	ALPHA	CNW	CBW	CTW
.952	-7.160	-.05560	-.01030	-.00460
.952	-4.860	-.02620	-.00470	.00030
.952	-2.560	.00780	.00130	.00650
.952	-.320	.04190	.00790	.01150
.952	1.940	.07820	.01510	.01590
.952	4.160	.11150	.02140	.02080
.952	6.500	.13500	.02560	.02600
.952	-.300	.04480	.00850	.01210

RUN NO. 39/ 0 RN/L = 6.62

MACH	ALPHA	CNW	CBW	CTW
1.046	-7.250	-.08530	-.01490	-.00350
1.046	-4.900	-.04860	-.00820	.00220
1.046	-2.590	-.01220	-.00170	.00820
1.046	-.300	.02930	.00600	.01400
1.046	1.980	.06880	.01360	.01860
1.046	4.230	.10900	.02140	.02330
1.046	6.550	.14710	.02900	.02700
1.046	-.300	.03110	.00630	.01420

1A71 TABULATED SOURCE DATA

MSFC TWT610 1A-71) 77-0.74-15 (RIK212, (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 66/ 0 RN/L = 6.64

MACH	ALPHA	CNH	CBW	CTW
1.151	-7.350	-.07780	-.01340	-.00010
1.151	-4.970	-.04000	-.00630	.00440
1.151	-2.590	-.00250	.00060	.00990
1.151	-.260	.03750	.00800	.01480
1.151	2.030	.07560	.01540	.01890
1.151	4.320	.11080	.02230	.02250
1.151	6.680	.14270	.02860	.02520
1.151	-.260	.04070	.00860	.01520

RUN NO. 68/ 0 RN/L = 6.67

MACH	ALPHA	CNH	CBW	CTW
1.199	-7.390	-.05780	-.01080	.00220
1.199	-4.970	-.01530	-.00230	.00490
1.199	-2.600	.02580	.00560	.00830
1.199	-.240	.06560	.01310	.01280
1.199	2.070	.09820	.01920	.01710
1.199	4.380	.12900	.02500	.02120
1.199	6.750	.15610	.03040	.02370
1.199	-.230	.06800	.01350	.01310

RUN NO. 40/ 0 RN/L = 6.72

MACH	ALPHA	CNH	CBW	CTW
1.250	-7.420	-.06090	-.01120	.00070
1.250	-5.010	-.01450	-.00220	.00410
1.250	-2.610	.03070	.00640	.00880
1.250	-.250	.07330	.01440	.01380
1.250	2.070	.11030	.02140	.01860
1.250	4.370	.14310	.02760	.02250
1.250	6.720	.17230	.03320	.02580
1.250	-.240	.07770	.01520	.01320

1A71 TABULATED SOURCE DATA

MSFC TW610 (1A-71) 77-0.74-TS (RIK213) (07 OCT 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 61/ 0 RN/L = 6.26

MACH	BETA	CNW	CBW	CTW
.899	-6.660	.02250	.00420	.00320
.899	-4.470	.03150	.00560	.00410
.899	-2.310	.03620	.00620	.00550
.899	-.160	.03830	.00680	.00670
.899	1.970	.04220	.00770	.00820
.899	4.130	.04510	.00840	.01000
.899	6.280	.05480	.01070	.01130
.899	-.160	.03690	.00650	.00680

RUN NO. 62/ 0 RN/L = 6.38

MACH	BETA	CNW	CBW	CTW
.947	-6.690	.01480	.00290	.00500
.947	-4.480	.02220	.00400	.00630
.947	-2.310	.02630	.00450	.00750
.947	-.150	.02770	.00510	.00900
.947	1.990	.03740	.00700	.00940
.947	4.140	.04670	.00880	.01080
.947	6.330	.05380	.01060	.01290
.947	-.150	.02780	.00510	.00890

RUN NO. 63/ 0 RN/L = 6.47

MACH	BETA	CNW	CBW	CTW
1.004	-6.710	.00260	.00100	.00860
1.004	-4.510	.00980	.00220	.00940
1.004	-2.320	.01500	.00320	.01100
1.004	-.160	.02010	.00430	.01250
1.004	1.990	.03030	.00640	.01320
1.004	4.150	.03990	.00830	.01470
1.004	6.330	.04880	.01030	.01640
1.004	-.160	.02080	.00450	.01230

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 77-0.74-TS (RIK213) (07 OCT 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 107/ 0 RN/L = 6.35

MACH	BETA	CNW	CBW	CTH
1.050	-6.760	-.00390	.00010	.00820
1.050	-4.540	.00310	.00180	.00930
1.050	-2.350	.01520	.00330	.01180
1.050	-.160	.01980	.00450	.01270
1.050	2.010	.03130	.00670	.01340
1.050	4.170	.04080	.00870	.01530
1.050	6.360	.05290	.01110	.01710
1.050	-.160	.01970	.00450	.01250

RUN NO. 84/ 0 RN/L = 6.80

MACH	BETA	CNW	CBW	CTH
1.100	-6.780	-.00280	.00040	.00900
1.100	-4.540	.00690	.00210	.01020
1.100	-2.340	.01750	.00400	.01180
1.100	-.150	.02490	.00560	.01300
1.100	2.020	.03560	.00770	.01430
1.100	4.190	.04700	.01000	.01590
1.100	6.390	.05920	.01260	.01740
1.100	-.150	.02550	.00580	.01320

RUN NO. 65/ 0 RN/L = 6.64

MACH	BETA	CNW	CBW	CTH
1.151	-6.790	-.00260	.00060	.01020
1.151	-4.560	.00690	.00220	.01070
1.151	-2.340	.01730	.00410	.01190
1.151	-.150	.02720	.00620	.01290
1.151	2.020	.03970	.00860	.01420
1.151	4.210	.05290	.01130	.01580
1.151	6.410	.06690	.01410	.01680
1.151	-.150	.02840	.00640	.01300

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1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 77-0.74-T5 (RIK213) (07 OCT 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 60/ 0 RN/L = 6.67

MACH	BETA	CNW	CBW	CTW
1.202	-6.890	.01900	.00470	.01050
1.202	-4.580	.03230	.00710	.01000
1.202	-2.380	.04950	.00950	.01020
1.202	-1.150	.05530	.01130	.01020
1.202	2.040	.06480	.01300	.01020
1.202	4.270	.07150	.01420	.01000
1.202	6.500	.07880	.01560	.00950
1.202	-1.150	.05420	.01110	.01030

RUN NO. 59/ 0 RN/L = 6.67

MACH	BETA	CNW	CBW	CTW
1.253	-6.840	.01120	.00330	.00990
1.253	-4.570	.02670	.00620	.01010
1.253	-2.350	.03990	.00850	.01050
1.253	-1.140	.05080	.01050	.01060
1.253	2.040	.05860	.01200	.00990
1.253	4.270	.06590	.01340	.00970
1.253	6.510	.07190	.01440	.00880
1.253	-1.140	.05140	.01050	.01060

RUN NO. 98/ 0 RN/L = 6.49

MACH	BETA	CNW	CBW	CTW
1.458	-6.640	.03240	.00750	.00790
1.458	-4.570	.04250	.00890	.00740
1.458	-2.350	.04980	.01000	.00660
1.458	-1.130	.05790	.01120	.00520
1.458	2.070	.06020	.01140	.00330
1.458	4.270	.06210	.01150	.00240
1.458	6.530	.06430	.01180	.00210
1.458	-1.120	.05710	.01100	.00470

1471 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 77-0,74-TS Z10 (RIK214) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 13/ 0 RN/L = 5.57

MACH	ALPHA	CNW	CBW	CTW
.800	-7.020	-.16160	-.03150	-.01240
.800	-4.820	-.13240	-.02620	-.00600
.800	-2.590	-.10630	-.02140	.00010
.800	-.390	-.07810	-.01640	.00560
.800	1.810	-.04680	-.01050	.01100
.800	4.060	-.01620	-.00470	.01670
.800	6.300	.01970	.00230	.02180
.800	-.390	-.07590	-.01600	.00590

RUN NO. 12/ 0 RN/L = 6.31

MACH	ALPHA	CNW	CBW	CTW
.906	-7.150	-.14590	-.02810	-.01140
.906	-4.850	-.11560	-.02240	-.00510
.906	-2.630	-.08810	-.01730	.00120
.906	-.400	-.05700	-.01190	.00600
.906	1.820	-.02290	-.00540	.01180
.906	4.100	.00790	.00040	.01770
.906	6.370	.04640	.00790	.02310
.906	-.390	-.05640	-.01190	.00560

RUN NO. 11/ 0 RN/L = 6.52

MACH	ALPHA	CNW	CBW	CTW
.997	-7.160	-.13690	-.02510	-.01140
.997	-4.840	-.10510	-.01990	-.00560
.997	-2.570	-.07640	-.01380	.00020
.997	-.330	-.04570	-.00820	.00540
.997	1.920	-.01170	-.00210	.01060
.997	4.170	.02670	.00510	.01600
.997	6.490	.06670	.01270	.02160
.997	-.330	-.04440	-.00810	.00590

PARAMETRIC DATA

BETA = .000 ORBINC = .000
 FLIPOR = 40.000

RUN NO. 10/ 0 RN/L = 6.59

MACH	ALPHA	CNU	CBW	CTH
1.048	-7.230	-.13430	-.02430	-.01200
1.048	-4.880	-.10200	-.01800	-.00630
1.048	-2.580	-.07270	-.01260	-.00050
1.048	-.320	-.04150	-.00720	.00460
1.048	1.950	-.00620	-.00070	.00960
1.048	4.200	.03080	.00620	.01530
1.048	6.580	.07450	.01460	.02050
1.048	-.310	-.03920	-.00680	.00490

RUN NO. 14/ 0 RN/L = 6.64

MACH	ALPHA	CNU	CBW	CTH
1.105	-7.260	-.13110	-.02350	-.01250
1.105	-4.910	-.09750	-.01690	-.00670
1.105	-2.590	-.06510	-.01110	-.00050
1.105	-.300	-.02940	-.00480	.00500
1.105	1.990	.00870	.00210	.01050
1.105	4.300	.05210	.01010	.01590
1.105	6.640	.09180	.01770	.02100
1.105	-.300	-.02830	-.00470	.00550

RUN NO. 15/ 0 RN/L = 6.70

MACH	ALPHA	CNU	CBW	CTH
1.250	-7.390	-.09870	-.01850	-.00770
1.250	-4.960	-.05260	-.00960	-.00310
1.250	-2.580	-.03570	-.00080	.00230
1.250	-.210	.04010	.00740	.00850
1.250	2.100	.07840	.01430	.01450
1.250	4.420	.10950	.02000	.01920
1.250	6.760	.13900	.02560	.02280
1.250	-.200	.04370	.00810	.00900

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 77-0.74-TS Z10 (RIK214) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 19/ 0 RN/L = 6.51

MACH	ALPHA	CNW	CBH	CTH
1.458	-7.420	-.08860	-.01690	-.00790
1.458	-5.000	-.04740	-.00920	-.00530
1.458	-2.620	-.00570	-.00130	-.00170
1.458	-.250	.03600	.00640	.00290
1.458	2.080	.07490	.01340	.00890
1.458	4.390	.10790	.01930	.01390
1.458	6.750	.13500	.02430	.01780
1.458	-2.230	.03880	.00680	.00290

RUN NO. 22/ 0 RN/L = 7.03

MACH	ALPHA	CNW	CBH	CTH
1.967	-7.490	-.06280	-.01270	-.00490
1.967	-5.020	-.04080	-.00890	-.00350
1.967	-2.660	-.02250	-.00550	-.00290
1.967	-.320	.00440	-.00070	-.00150
1.967	2.010	.03320	.00430	.00030
1.967	4.320	.06590	.01020	.00290
1.967	6.680	.10220	.01730	.00730
1.967	-3.310	.00720	-.00020	-.00110

(RIK215) (07 OCT 75)

MSFC TWT610 (1A-71) 77-0.74-TS Z10

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 9/ 0 RN/L = 6.58

MACH	BETA	CNW	CBH	CTH
1.048	-6.440	-.05480	-.00910	.00160
1.048	-4.330	-.05150	-.00890	.00290
1.048	-2.250	-.04760	-.00830	.00360
1.048	-.180	-.04170	-.00720	.00480
1.048	1.870	-.03250	-.00580	.00570
1.048	3.940	-.02240	-.00400	.00700
1.048	6.030	-.01400	-.00240	.00810
1.048	-.180	-.04160	-.00710	.00490

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1A71 TABULATED SOURCE DATA

MSFC TW1610 (1A-71) 77-0.74-TS Z10 (RIK216) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 32/ 0 RN/L = 5.91

MACH	ALPHA	CNW	CBW	CTW
.787	-7.050	-.14280	-.02810	-.01190
.787	-4.850	-.11270	-.02250	-.00500
.787	-2.600	-.08570	-.01740	.00100
.797	-.400	-.05360	-.01170	.00690
.797	1.820	-.02000	-.00550	.01290
.797	4.060	.01160	.00040	.01890
.797	6.280	.04430	.00680	.02440
.797	-.400	-.05180	-.01140	.00700

RUN NO. 31/ 0 RN/L = 6.27

MACH	ALPHA	CNW	CBW	CTW
.904	-7.160	-.12870	-.02510	-.01020
.904	-4.860	-.09870	-.01940	-.00390
.904	-2.650	-.07000	-.01410	.00230
.904	-.410	-.03950	-.00870	.00830
.904	1.820	-.00670	-.00280	.01460
.904	4.080	.02800	.00420	.02050
.904	6.380	.06780	.01200	.02540
.904	-.410	-.03680	-.00790	.00870

RUN NO. 17/ 0 RN/L = 6.51

MACH	ALPHA	CNW	CBW	CTW
1.004	-7.150	-.10640	-.01920	-.00980
1.004	-4.850	-.07260	-.01270	-.00410
1.004	-2.550	-.04150	-.00710	.00170
1.004	-.300	-.00690	-.00080	.00760
1.004	1.960	.03330	.00670	.01300
1.004	4.210	.07270	.01400	.01910
1.004	6.510	.11340	.02180	.02410
1.004	-.300	-.00390	-.00030	.00790

1A71 TABULATED SOURCE DATA

(RIK216) (07 OCT 75)

MSFC TWT610 (1A-71) 77-0.74-TS Z10

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 30/ 0 RN/L = 6.57

MACH	ALPHA	CNW	CBW	CTW
1.049	-7.870	-.12080	-.02180	-.01830
1.048	-4.930	-.08740	-.01820	-.00810
1.049	-2.630	-.05980	-.00940	.00000
1.049	-.340	-.02530	-.00410	.00640
1.049	1.940	.01070	.00240	.01230
1.049	4.230	.05170	.01010	.01880
1.049	6.560	.09130	.01790	.02310
1.049	-.330	-.02460	-.00390	.00670

RUN NO. 29/ 0 RN/L = 6.63

MACH	ALPHA	CNW	CBW	CTW
1.107	-7.300	-.11910	-.02120	-.01180
1.107	-4.950	-.08190	-.01400	-.00580
1.107	-2.640	-.04690	-.00770	.00040
1.107	-.330	-.01170	-.00140	.00660
1.107	1.960	.02650	.00540	.01330
1.107	4.250	.06490	.01270	.01870
1.107	6.610	.10420	.02030	.02280
1.107	-.320	-.00920	-.00100	.00700

RUN NO. 16/ 0 RN/L = 6.69

MACH	ALPHA	CNW	CBW	CTW
1.260	-7.400	-.07710	-.01450	-.00400
1.260	-4.990	-.02910	-.00540	.00040
1.260	-2.600	.01600	.00290	.00570
1.260	-.230	.05720	.01060	.01080
1.260	2.080	.09430	.01740	.01620
1.260	4.380	.12690	.02360	.02070
1.260	6.730	.15630	.02930	.02410
1.260	-.210	.06120	.01130	.01140

IA71 TABULATED SOURCE DATA

(RIK216) (07 OCT 75)

MSFC TWT610 (IA-71) 77-0.74-TS Z10

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 18/ 0 RN/L = 6.49

MACH	ALPHA	CNM	CBM	CTW
1.474	-7.420	-.06920	-.01320	-.00520
1.474	-4.990	-.03020	-.00590	-.00330
1.474	-2.620	.01030	.00180	-.00020
1.474	-.260	.05080	.00940	.00400
1.474	2.080	.08940	.01640	.00940
1.474	4.390	.12310	.02250	.01500
1.474	6.750	.15100	.02780	.01890
1.474	-.240	.05430	.01000	.00430

RUN NO. 28/ 0 RN/L = 7.04

MACH	ALPHA	CNM	CBM	CTW
1.962	-7.470	-.05020	-.01020	-.00400
1.962	-5.050	-.02090	-.00660	-.00300
1.962	-2.690	-.01060	-.00300	-.00220
1.962	-.340	.01650	.00170	-.00070
1.962	2.000	.04460	.00670	.00090
1.962	4.320	.07910	.01300	.00340
1.962	6.670	.11360	.01970	.00760
1.962	-.310	.01910	.00210	-.00060

MSFC TWT610 (IA-71) 77-0.74-TS Z10

(RIK217) (07 OCT 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 73/ 0 RN/L = 6.22

MACH	BETA	CNM	CBM	CTW
.897	-6.650	-.03170	-.00710	.00690
.897	-4.460	-.02620	-.00620	.00740
.897	-2.300	-.02170	-.00520	.00820
.897	-.150	-.01810	-.00420	.00950
.897	1.980	-.00810	-.00240	.01070
.897	4.120	.00150	-.00090	.01160
.897	6.290	.00610	.00070	.01250
.897	-.150	-.01710	-.00400	.00950

IA71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 77-0,74-TS Z10 (RIK217) (07 OCT 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 72/ 0 RN/L = 6.54

MACH	BETA	CNW	CBW	CTW
1.054	-6.610	-.02380	-.00320	.00490
1.054	-4.370	-.01500	-.00190	.00630
1.054	-2.190	-.00700	-.00050	.00700
1.054	-.010	.00110	.00090	.00760
1.054	2.140	.01020	.00240	.00840
1.054	4.330	.02130	.00440	.01000
1.054	6.510	.02980	.00610	.01110
1.054	-.010	.00220	.00110	.00770

RUN NO. 74/ 0 RN/L = 6.64

MACH	BETA	CNW	CBW	CTW
1.248	-6.840	.00530	.00220	.00880
1.248	-4.570	.01960	.00440	.00940
1.248	-2.350	.03250	.00660	.00990
1.248	-.150	.04400	.00850	.01020
1.248	2.060	.05090	.00970	.00960
1.248	4.270	.05860	.01100	.00940
1.248	6.510	.06370	.01200	.00830
1.248	-.140	.04640	.00880	.00980

RUN NO. 91/ 0 RN/L = 6.49

MACH	BETA	CNW	CBW	CTW
1.456	-6.840	.02260	.00530	.00680
1.456	-4.570	.03290	.00670	.00660
1.456	-2.350	.03930	.00760	.00590
1.456	-.130	.04810	.00890	.00450
1.456	2.060	.05130	.00940	.00300
1.456	4.270	.05330	.00940	.00200
1.456	6.540	.05690	.01000	.00210
1.456	-.120	.04820	.00890	.00420

1A71 TABULATED SOURCE DATA

(RIK218) (07 OCT 75)

MSFC TWT610 (1A-71) 77-0,74-TS Z10

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 10.000

RUN NO. 57/ 0 RN/L = 6.47

MACH	BETA	CNM	CBW	CTW
.995	-6.680	-.01190	-.00190	.00570
.995	-4.480	-.00470	-.00070	.00640
.995	-2.310	.00220	.00040	.00670
.995	-.150	.00760	.00160	.00760
.995	1.990	.01740	.00320	.00820
.995	4.140	.02460	.00480	.00930
.995	6.320	.03270	.00650	.01040
.995	-.160	.00780	.00160	.00760

RUN NO. 56/ 0 RN/L = 6.56

MACH	BETA	CNM	CBW	CTW
1.051	-6.730	-.01580	-.00200	.00480
1.051	-4.510	-.00810	-.00080	.00580
1.051	-2.330	-.00080	.00030	.00680
1.051	-.160	.00470	.00150	.00770
1.051	1.990	.01460	.00310	.00850
1.051	4.160	.02420	.00510	.01020
1.051	6.360	.03310	.00680	.01160
1.051	-.140	.00440	.00140	.00770

RUN NO. 58/ 0 RN/L = 6.67

MACH	BETA	CNM	CBW	CTW
1.253	-6.840	.00470	.00220	.00860
1.253	-4.560	.01900	.00460	.00870
1.253	-2.350	.03260	.00680	.00950
1.253	-.140	.04260	.00850	.00960
1.253	2.050	.05050	.00990	.00910
1.253	4.260	.05730	.01120	.00890
1.253	6.510	.06350	.01230	.00830
1.253	-.120	.04410	.00870	.00960

IA71 TABULATED SOURCE DATA

MSFC TWT610 (IA-71) 77-0.74-TS Z10 (RIK218) (07 OCT 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 10.000

RUN NO. 99/ 0 RN/L = 6.49

MACH	BETA	CNW	CBW	CTW
1.460	-6.840	.02620	.00620	.00680
1.460	-4.570	.03690	.00770	.00660
1.460	-2.350	.04430	.00880	.00590
1.460	-1.140	.05210	.01000	.00420
1.460	2.060	.05590	.01050	.00260
1.460	4.270	.05770	.01060	.00160
1.460	6.530	.06020	.01100	.00130
1.460	-1.120	.05250	.01000	.00400

MSFC TWT610 (IA-71) 77-0.74-TS Z10

(RIK219) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 10.000

RUN NO. 49/ 0 RN/L = 5.95

MACH	ALPHA	CNW	CBW	CTW
.802	-6.990	-.09010	-.01790	-.00960
.802	-4.800	-.06420	-.01300	-.00380
.802	-2.580	-.03790	-.00800	.00180
.802	-.380	-.00770	-.00230	.00790
.802	1.840	.02660	.00430	.01350
.802	4.080	.05560	.00970	.01980
.802	6.320	.08170	.01470	.02520
.802	-.380	-.00330	-.00150	.00840

RUN NO. 50/ 0 RN/L = 6.28

MACH	ALPHA	CNW	CBW	CTW
.903	-7.140	-.08430	-.01660	-.00910
.903	-4.820	-.05570	-.01100	-.00320
.903	-2.620	-.02930	-.00610	.00270
.903	-.380	-.00020	-.00050	.00870
.903	1.850	.04140	.00750	.01250
.903	4.100	.07040	.01300	.01900
.903	6.410	.09800	.01840	.02430
.903	-.370	.00140	-.00020	.00870

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(RIK219) (07 OCT 75)

MSFC TW1610 (IA-71) 77-0.74-TS Z10

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 10.000

RUN NO. 51/ 0 RN/L = 6.40

MACH	ALPHA	CNW	CBW	CTW
.954	-7.180	-.07930	-.01480	-.00950
.954	-4.860	-.05130	-.00950	-.00380
.954	-2.580	-.02150	-.00390	.00190
.954	-.350	.00940	.00180	.00770
.954	1.910	.04860	.00930	.01160
.954	4.140	.08200	.01580	.01720
.954	6.480	.11370	.02200	.02200
.954	-.350	.01150	.00210	.00820

RUN NO. 54/ 0 RN/L = 6.47

MACH	ALPHA	CNW	CBW	CTW
.997	-7.140	-.08620	-.01580	-.01030
.997	-4.820	-.05490	-.00990	-.00460
.997	-2.560	-.02740	-.00470	.00080
.997	-.340	.00310	.00070	.00690
.997	1.930	.04030	.00790	.01190
.997	4.170	.07590	.01460	.01710
.997	6.490	.11010	.02140	.02180
.997	-.330	.00450	.00100	.00710

RUN NO. 55/ 0 RN/L = 6.56

MACH	ALPHA	CNW	CBW	CTW
1.050	-7.220	-.09070	-.01590	-.00900
1.050	-4.870	-.05910	-.01000	-.00350
1.050	-2.580	-.02740	-.00420	.00190
1.050	-.310	.00350	.00130	.00760
1.050	1.960	.03950	.00800	.01240
1.050	4.200	.07430	.01460	.01740
1.050	6.550	.11020	.02170	.02150
1.050	-.310	.00560	.00160	.00790

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 77-0.74-15 Z10 (RIK219) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 OFBINC = .000
 FLIPDR = 10.000

RUN NO. 53/ 0 RN/L = 6.61

MACH	ALPHA	CNW	CBW	CTW
1.103	-7.280	-.09540	-.01660	-.00730
1.103	-4.910	-.05950	-.00970	-.00150
1.103	-2.580	-.02470	-.00340	.00440
1.103	-.290	.01200	.00310	.01030
1.103	2.010	.04870	.01000	.01490
1.103	4.290	.08520	.01700	.01920
1.103	6.670	.11880	.02360	.02230
1.103	-.280	.01480	.00360	.01090

RUN NO. 52/ 0 RN/L = 6.64

MACH	ALPHA	CNW	CBW	CTW
1.149	-7.410	-.10060	-.01830	-.00540
1.149	-4.980	-.05900	-.01020	-.00050
1.149	-2.630	-.01430	-.00190	.00500
1.149	-.290	.02750	.00580	.01050
1.149	2.010	.06470	.01290	.01520
1.149	4.320	.09580	.01890	.01840
1.149	6.690	.12780	.02510	.02200
1.149	-.280	.03110	.00640	.01120

RUN NO. 48/ 0 RN/L = 6.68

MACH	ALPHA	CNW	CBW	CTW
1.202	-7.410	-.08030	-.01500	-.00180
1.202	-4.980	-.03640	-.00640	.00160
1.202	-2.610	.00610	.00170	.00540
1.202	-.260	.04570	.00910	.00990
1.202	2.040	.08030	.01550	.01480
1.202	4.360	.11210	.02160	.01890
1.202	6.720	.14260	.02750	.02220
1.202	-.250	.04670	.00930	.01060

1A71 TABULATED SOURCE DATA

(RIK219) (07 OCT 75)

MSFC TWT610 (1A-71) 77-0.74-T5 Z10

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 10.000

RUN NO. 47/ 0 RN/L = 6.67

MACH	ALPHA	CNW	CBW	CTW
1.251	-7.430	-.07410	-.01380	-.00120
1.251	-4.990	-.03190	-.00560	.00230
1.251	-2.610	.00950	.00220	.00630
1.251	-.250	.04910	.00960	.01110
1.251	2.050	.08230	.01580	.01560
1.251	4.360	.11310	.02160	.01950
1.251	6.710	.13960	.02690	.02240
1.251	-.250	.05270	.01020	.01040

RUN NO. 100/ 0 RN/L = 6.49

MACH	ALPHA	CNW	CBW	CTW
1.460	-7.450	-.05600	-.01060	-.00380
1.460	-5.020	-.01960	-.00370	-.00210
1.460	-2.640	.01820	.00350	.00040
1.460	-.270	.05620	.01070	.00450
1.460	2.080	.09140	.01710	.00940
1.460	4.390	.12190	.02260	.01420
1.460	6.750	.14780	.02740	.01820
1.460	-.230	.05780	.01100	.00440

RUN NO. 106/ 0 RN/L = 7.03

MACH	ALPHA	CNW	CBW	CTW
1.967	-7.470	-.04990	-.00650	-.00260
1.967	-5.070	-.01490	-.00240	-.00190
1.967	-2.670	.00580	.00000	-.00100
1.967	-.310	.03130	.00460	-.00010
1.967	2.030	.05640	.00910	.00100
1.967	4.340	.08530	.01430	.00290
1.967	6.700	.11640	.02030	.00680
1.967	-.270	.03380	.00500	.00000

1A71 TABULATED SOURCE DATA

MSFC TW1610 (1A-71) 77-0.74-TS Z10 (INCIDENCE)

(RIK220) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = -3.000
FLIPDR = .000

RUN NO. 23/ 0 RN/L = 5.93

MACH	ALPHA	CNH	CBW	CTW
.799	-7.070	-1.1700	-.02160	-.01910
.799	-4.860	-.08550	-.01620	-.01330
.799	-2.640	-.05400	-.01040	-.00730
.799	-1.440	-.02420	-.00480	-.00130
.799	1.750	.00370	.00020	.00480
.799	3.990	.03110	.00530	.01130
.799	6.250	.05870	.01070	.01740
.799	-1.450	-.02310	-.00460	-.00140

RUN NO. 27/ 0 RN/L = 6.27

MACH	ALPHA	CNH	CBW	CTW
.902	-7.210	-1.1170	-.02060	-.01990
.902	-4.920	-.07660	-.01430	-.01530
.902	-2.700	-.04250	-.00810	-.00910
.902	-1.480	-.00760	-.00150	-.00290
.902	1.750	.02660	.00480	.00370
.902	4.000	.05880	.01100	.00980
.902	6.280	.09020	.01690	.01550
.902	-1.480	-.00700	-.00130	-.00240

RUN NO. 26/ 0 RN/L = 6.58

MACH	ALPHA	CNH	CBW	CTW
1.048	-7.370	-1.1610	-.02920	-.01630
1.048	-5.020	-.12200	-.02140	-.01130
1.048	-2.710	-.08350	-.01410	-.00530
1.048	-1.430	-.04610	-.00720	.00110
1.048	1.830	-.00940	-.00050	.00720
1.048	4.110	.03390	.00760	.01330
1.048	6.430	.05950	.01490	.01680
1.048	-1.420	-.04320	-.00670	.00150

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1A71 TABULATED SOURCE DATA

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MSFC THT610 (1A-71) 77-0,74-T5 Z10 (INCIDENCE)

(RIK220) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = -3.000
FLIPDR = .000

RUN NO. 25/ 0 RN/L = 6.61

MACH	ALPHA	CNW	CBW	CTW
1.096	-7.410	-.17040	-.03070	-.01560
1.096	-5.040	-.12890	-.02260	-.01090
1.096	-2.720	-.08420	-.01400	-.00470
1.096	-.410	-.03960	-.00580	-.00310
1.096	1.860	.00030	.00140	.00960
1.096	4.150	.03940	.00890	.01460
1.096	6.500	.07810	.01670	.01790
1.096	-.410	-.03660	-.00520	.00350

RUN NO. 24/ 0 RN/L = 6.69

MACH	ALPHA	CNW	CBW	CTW
1.250	-7.530	-.13950	-.02560	-.00590
1.250	-5.110	-.09530	-.01710	-.00280
1.250	-2.730	-.05040	-.00820	.00000
1.250	-.370	-.00440	.00060	.00390
1.250	1.920	.03620	.00840	.00860
1.250	4.230	.07150	.01530	.01300
1.250	6.580	.10410	.02160	.01620
1.250	-.370	.00040	.00150	.00400

RUN NO. 23/ 0 RN/L = 6.52

MACH	ALPHA	CNW	CBW	CTW
1.463	-7.510	-.11760	-.02130	-.00710
1.463	-5.090	-.08320	-.01190	-.00590
1.463	-2.720	-.04430	-.00770	-.00360
1.463	-.380	-.00510	-.00020	-.00100
1.463	1.950	.03250	.00680	.00230
1.463	4.250	.06820	.01360	.00650
1.463	6.600	.09920	.01940	.01020
1.463	-.360	-.00200	.00010	-.00120

IA71 TABULATED SOURCE DATA

MSFC TWT610 (IA-71) 77-0.74-TS Z10 SEALED W/O.P (RIK221) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 34/ 0 RN/L = 6.63

MACH	ALPHA	CNW	CBW	CTW
1.110	-7.310	-.12240	-.02140	-.01250
1.110	-4.940	-.08430	-.01440	-.00680
1.110	-2.620	-.05120	-.00840	-.00110
1.110	-.330	-.01400	-.00180	.00450
1.110	1.960	.02470	.00520	.00980
1.110	4.270	.06510	.01250	.01510
1.110	6.610	.10390	.01970	.01940
1.110	-.320	-.01050	-.00100	.00540

MSFC TWT610 (IA-71) 77-0.74-TS Z10 W/FAIRINGSF3 (RIK222) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 37/ 0 RN/L = 6.27

MACH	ALPHA	CNW	CBW	CTW
.904	-7.160	-.05960	-.01130	-.01060
.904	-4.860	-.02250	-.00430	-.00400
.904	-2.560	.01350	.00220	.00260
.904	-.420	.04750	.00860	.00900
.904	1.820	.08720	.01610	.01570
.904	4.060	.11510	.02110	.02190
.904	6.380	.13020	.02360	.02800
.904	-.410	.04950	.00890	.00940

RUN NO. 38/ 0 RN/L = 6.57

MACH	ALPHA	CNW	CBW	CTW
1.045	-7.260	-.08540	-.01490	-.00360
1.045	-4.890	-.04880	-.00810	.00200
1.045	-2.590	-.01190	-.00160	.00820
1.045	-.360	.02470	.00530	.01350
1.045	1.910	.06370	.01280	.01800
1.045	4.210	.10430	.02080	.02260
1.045	6.530	.14130	.02820	.02610
1.045	-.350	.02720	.00580	.01380

1A71 TABULATED SOURCE DATA

MSFC TMT610 (1A-71) 77-0.74-TS 210 W/FAIRINGSF3 (RIK222) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 35/ 0 RN/L = 6.69

MACH	ALPHA	CNW	CBW	CTW
1.249	-7.430	-.06290	-.01160	.00060
1.249	-5.030	-.01680	-.00260	.00430
1.249	-2.640	.02690	.00580	.00870
1.249	-.310	.06750	.01350	.01350
1.249	2.000	.10320	.02030	.01840
1.249	4.310	.13800	.02680	.02240
1.249	6.670	.16850	.03270	.02570
1.249	-.300	.07150	.01430	.01340

MSFC TMT610 (1A-71) 77-0.74-TS 210 W/FAIRINGSF5 (RIK223) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 41/ 0 RN/L = 6.32

MACH	ALPHA	CNW	CBW	CTW
.897	-7.120	-.05220	-.01020	-.01050
.897	-4.910	-.01860	-.00380	-.00450
.897	-2.650	.01580	.00250	.00180
.897	-.400	.04710	.00830	.00870
.897	1.860	.08750	.01620	.01420
.897	4.140	.11420	.02110	.02060
.897	6.390	.13030	.02380	.02640
.897	-.400	.04960	.00860	.00880

RUN NO. 42/ 0 RN/L = 6.60

MACH	ALPHA	CNW	CBW	CTW
1.045	-7.210	-.08720	-.01510	-.00390
1.045	-4.910	-.04990	-.00820	.00220
1.045	-2.640	-.01480	-.00190	.00800
1.045	-.340	.02500	.00540	.01350
1.045	1.970	.06450	.01310	.01790
1.045	4.280	.10810	.02170	.02210
1.045	6.590	.14300	.02870	.02570
1.045	-.330	.02810	.00600	.01390

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF5 (R1K223) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 43/ 0 RN/L = 6.74

MACH	ALPHA	CNM	CBW	CTW
1.249	-7.410	-.06150	-.01120	.00000
1.249	-5.010	-.01520	-.00210	.00360
1.249	-2.680	.02500	.00560	.00880
1.249	-.350	.06390	.01300	.01290
1.249	2.000	.10250	.02030	.01760
1.249	4.360	.13810	.02710	.02180
1.249	6.600	.17040	.03320	.02570
1.249	-.340	.06880	.01390	.01250

MSFC TWT610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF11

(R1K224) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 46/ 0 RN/L = 6.32

MACH	ALPHA	CNM	CBW	CTW
.907	-7.150	-.07820	-.01370	-.01600
.907	-4.840	-.03950	-.00670	-.00900
.907	-2.620	-.00390	.00000	-.00130
.907	-.380	.02900	.00640	.00600
.907	1.860	.07220	.01500	.01190
.907	4.100	.10020	.01990	.01860
.907	6.420	.11610	.02260	.02430
.907	-.380	.02970	.00660	.00610

RUN NO. 45/ 0 RN/L = 6.61

MACH	ALPHA	CNM	CBW	CTW
1.045	-7.300	-.12140	-.02060	-.01090
1.045	-4.960	-.07590	-.01200	-.00420
1.045	-2.620	-.03340	-.00420	.00340
1.045	-.340	.00710	.00330	.01070
1.045	1.950	.04640	.01090	.01530
1.045	4.200	.08800	.01900	.01940
1.045	6.550	.12510	.02630	.02270
1.045	-.330	.00990	.00380	.01120

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1A71 TABULATED SOURCE DATA

(RIK224) (07 OCT 75)

MSFC TW1610 (1A-71) 77-0.74-TS Z10 W/FAIRINGSF11

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = .000

RUN NO. 44/ 0 RN/L = 5.72

MACH	ALPHA	CNW	CBW	CTH
1.248	-7.450	-.08930	-.01530	-.00240
1.248	-5.040	-.04670	-.00690	.00050
1.248	-2.660	-.00400	.00140	.00360
1.248	-.310	.03620	.00930	.00650
1.248	2.010	.07420	.01660	.01020
1.248	4.340	.10960	.02330	.01440
1.248	6.700	.14270	.02940	.01810
1.248	-.290	.04020	.01000	.00720

(RIK225) (16 APR 75)

MSFC TW1610 (1A-71) 74-OTS Z13

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 370/ 0 RN/L = 5.97

MACH	ALPHA	CHEO	CHEI
.799	-7.130	.00180	.02590
.799	-4.920	.00390	.02530
.799	-2.700	.00640	.02540
.799	-.500	.01340	.02920
.799	1.700	.01630	.03210
.799	3.940	.01430	.03190
.799	6.190	.00720	.02990
.799	-.480	.01170	.02930

RUN NO. 371/ 0 RN/L = 6.30

MACH	ALPHA	CHEO	CHEI
.902	-7.260	.01250	.02630
.902	-4.960	.01580	.02690
.902	-2.740	.01540	.02900
.902	-.510	.01390	.02610
.902	1.720	.01380	.02170
.902	3.960	.01220	.01940
.902	6.270	.01910	.02530
.902	-.490	.01240	.02670

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 74-OTS 213 (RIK225) (16 APR 75)

PARAMETRIC DATA

BETA = .000 CRBINC = .000
 FLIPOR = 20.000

RUN NO. 372/ 0 RN/L = 6.41

MACH	ALPHA	CHEO	CHEI
.945	-7.310	.00590	.05220
.945	-4.990	.00570	.05120
.945	-2.720	.00740	.04350
.945	-1.470	.00060	.03980
.945	1.780	.00230	.02480
.945	3.990	.01120	.01890
.945	6.300	.02060	.02760
.945	-1.460	.00200	.03640

RUN NO. 377/ 0 RN/L = 6.51

MACH	ALPHA	CHEO	CHEI
.998	-7.300	.00900	.10010
.998	-4.970	.00610	.09610
.998	-2.680	.00500	.09140
.998	-1.400	.00520	.08600
.998	1.850	.01030	.07310
.998	4.080	.01840	.06790
.998	6.390	.02200	.06220
.998	-1.390	.03430	.08080

RUN NO. 378/ 0 RN/L = 6.56

MACH	ALPHA	CHEO	CHEI
1.051	-7.360	.01660	.11740
1.051	-5.020	.01370	.11010
1.051	-2.690	.01280	.10180
1.051	-1.400	.01550	.08940
1.051	1.860	.02280	.08090
1.051	4.120	.02900	.07640
1.051	6.430	.02770	.07510
1.051	-1.390	.01410	.08820

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1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 74-OTS Z13

(RIK225) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 378/ 0 RN/L = 8.88

MACH	ALPHA	CHEO	CHEI
1.104	-7.410	.00590	.13440
1.104	-5.030	.00390	.13000
1.104	-2.700	.00790	.12400
1.104	-1.380	.01860	.11800
1.104	1.920	.02370	.11060
1.104	4.190	.02040	.10110
1.104	6.530	.00930	.09470
1.104	-1.370	.01740	.11560

RUN NO. 379/ 0 RN/L = 8.69

MACH	ALPHA	CHEO	CHEI
1.149	-7.460	.00410	.14660
1.149	-5.050	.01120	.13830
1.149	-2.700	.02430	.13340
1.149	-1.350	.02690	.13070
1.149	1.940	.01980	.12300
1.149	4.230	.00890	.11190
1.149	6.600	-.00710	.10350
1.149	-1.330	.02500	.12960

RUN NO. 373/ 0 RN/L = 6.72

MACH	ALPHA	CHEO	CHEI
1.203	-7.510	.01410	.14120
1.203	-5.080	.01840	.13430
1.203	-2.710	.01890	.12700
1.203	-1.360	.01370	.12570
1.203	1.940	.00210	.12300
1.203	4.240	-.01330	.11570
1.203	6.610	-.02690	.10550
1.203	-1.320	.00850	.12540

1A71 TABULATED SOURCE DATA

MSFC TW1610 (1A-71) 74-OTS 213 (RIK225) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO.	374/ 0	RN/L = 6.72			
			MACH	ALPHA	CHEO
			1.248	-7.520	.01380
			1.248	-5.090	.01560
			1.248	-2.710	.01650
			1.248	-.340	.01090
			1.248	1.960	.00050
			1.248	4.260	-.01430
			1.248	6.620	-.03070
			1.248	-.320	.00370
					CHEI
					.14690
					.14240
					.13670
					.13240
					.13020
					.12280
					.11230
					.12860

RUN NO.	356/ 0	RN/L = 6.54			
			MACH	ALPHA	CHEO
			1.461	-7.550	.00730
			1.461	-5.130	-.00520
			1.461	-2.760	-.01860
			1.461	-.390	-.02760
			1.461	1.960	-.03420
			1.461	4.260	-.04140
			1.461	6.610	-.04920
			1.461	-.380	-.03230
					CHEI
					.12500
					.11550
					.10620
					.09750
					.09390
					.08650
					.07120
					.09400

RUN NO.	357/ 0	RN/L = 7.07			
			MACH	ALPHA	CHEO
			1.957	-7.580	-.02010
			1.957	-5.180	-.02810
			1.957	-2.810	-.03770
			1.957	-.450	-.05000
			1.957	1.910	-.05940
			1.957	4.220	-.06820
			1.957	6.550	-.06820
			1.957	-.410	-.05180
					CHEI
					.06820
					.05830
					.04770
					.03620
					.02390
					.01520
					.01070
					.03110

1A71 TABULATED SOURCE DATA

(RIK226) (16 APR 75)

MSFC TWT610 (1A-71) 7N-OTS 213

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 369/ 0 RN/L = 5.96

MACH	ALPHA	CHEO	CHEI
.800	-7.150	.00600	.01740
.800	-4.930	.01120	.01580
.800	-2.710	.01410	.01620
.800	-.510	.01950	.01870
.800	1.710	.02020	.02200
.800	3.920	.01910	.02230
.800	6.180	.01450	.02180
.800	-.500	.02000	.01920

RUN NO. 368/ 0 RN/L = 6.30

MACH	ALPHA	CHEO	CHEI
.903	-7.270	.03010	.02980
.903	-4.970	.03320	.03180
.903	-2.750	.03500	.03120
.903	-.520	.03550	.02910
.903	1.710	.03530	.02440
.903	3.950	.03410	.01890
.903	6.260	.03060	.01620
.903	-.490	.03200	.03160

RUN NO. 365/ 0 RN/L = 6.52

MACH	ALPHA	CHEO	CHEI
1.000	-7.300	.00080	.09610
1.000	-4.990	.00000	.09330
1.000	-2.660	.00080	.09210
1.000	-.420	.00000	.08660
1.000	1.810	.00540	.06950
1.000	4.080	.01370	.06110
1.000	6.380	.01680	.05500
1.000	-.430	.00040	.08180

1A71 TABULATED SOURCE DATA

(RIK226) (18 APR 75)

MSFC T4T610 (1A-71) 74-OTS Z13

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 364/ 0 RN/L = 5.60

MACH	ALPHA	CHEO	CHEI
1.048	-7.350	.00070	.10600
1.048	-5.020	-.00070	.10130
1.048	-2.690	.00000	.09720
1.048	-.400	.00000	.08820
1.048	1.840	.00820	.07540
1.048	4.100	.01500	.06670
1.048	6.460	.01640	.06910
1.048	-.390	-.00060	.08720

RUN NO. 366/ 0 RN/L = 5.67

MACH	ALPHA	CHEO	CHEI
1.109	-7.390	-.00990	.12020
1.109	-5.020	-.01320	.11550
1.109	-2.700	-.01290	.10950
1.109	-.390	-.00320	.10210
1.109	1.890	.00860	.09610
1.109	4.160	.00960	.09220
1.109	6.510	.00350	.08770
1.109	-.390	-.00340	.10110

RUN NO. 367/ 0 RN/L = 5.71

MACH	ALPHA	CHEO	CHEI
1.252	-7.530	-.00060	.13540
1.252	-5.090	.00210	.13200
1.252	-2.720	.00190	.12830
1.252	-.350	.00000	.12420
1.252	1.950	-.00420	.12070
1.252	4.250	-.01300	.11320
1.252	6.600	-.02630	.10100
1.252	-.340	-.00470	.12190

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IA71 TABULATED SOURCE DATA

(RIK226) (16 APR 75)

MSFC TWT610 (IA-71) 74-OTS Z13

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 355/ 0 RN/L = 6.53

MACH	ALPHA	CHEO	CHEI
1.461	-7.560	.00120	.11910
1.461	-5.130	-.01040	.10940
1.461	-2.760	-.02160	.10010
1.461	-.390	-.02830	.09050
1.461	1.960	-.03180	.08540
1.461	4.270	-.03610	.07550
1.461	5.610	-.04230	.06240
1.461	-.360	-.03150	.08550

RUN NO. 359/ 0 RN/L = 7.04

MACH	ALPHA	CHEO	CHEI
1.957	-7.610	-.01840	.07160
1.957	-5.180	-.02590	.05980
1.957	-2.810	-.03570	.04710
1.957	-.450	-.04690	.03460
1.957	1.890	-.05540	.02430
1.957	4.230	-.06370	.01520
1.957	6.550	-.06290	.01100
1.957	-.420	-.04840	.02990

MSFC TWT610 (IA-71) 74-OTS Z13

(RIK227) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 380/ 0 RN/L = 6.28

MACH	BETA	CHEO	CHEI
.902	-6.600	.02160	.05950
.902	-4.450	.01720	.05090
.902	-2.290	.01610	.04530
.902	-.160	.01760	.04120
.902	1.960	.02200	.02760
.902	4.090	.02500	.02670
.902	6.240	.01910	.02370
.902	-.150	.01950	.03990

1A71 TABULATED SOURCE DATA

MSFC TWTB10 (1A-71) 74-OTS Z13 (RIK227) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORB/INC = .000
FLIPDR = 20.000

RUN NO. 379/ 0 RN/L = 6.57

MACH	BETA	CHEO	CHEI
1.048	-6.670	.03190	.10860
1.048	-4.480	.02090	.09370
1.048	-2.300	.01540	.09110
1.048	-1.150	.01190	.09030
1.048	1.990	.00720	.06900
1.048	4.140	.00570	.06550
1.048	6.300	.00580	.05610
1.048	-1.140	.01210	.08870

RUN NO. 381/ 0 RN/L = 6.68

MACH	BETA	CHEO	CHEI
1.247	-6.780	-.01970	.15900
1.247	-4.530	-.01050	.16190
1.247	-2.330	.00070	.15520
1.247	-1.150	.00890	.14380
1.247	2.020	.01720	.12800
1.247	4.200	.01970	.12280
1.247	6.430	.01650	.11140
1.247	-1.150	.01060	.14290

RUN NO. 358/ 0 RN/L = 7.01

MACH	BETA	CHEO	CHEI
1.963	-6.780	-.04740	.02080
1.963	-4.540	-.04620	.02480
1.963	-2.340	-.04370	.02660
1.963	-1.140	-.04390	.03360
1.963	2.040	-.04120	.03890
1.963	4.240	-.03610	.04290
1.963	6.470	-.03250	.04830
1.963	-1.130	-.04450	.03380

1A71 TABULATED SOURCE DATA

(RIK228) (16 APR 75)

MSFC THT610 (1A-71) 74-OTS Z13

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 361/ 0 RN/L = 6.28

MACH	BETA	CHEO	CHEI
.902	-6.590	.03710	.04480
.902	-4.430	.03700	.03790
.902	-2.290	.03760	.03520
.902	-1.160	.03760	.03090
.902	1.980	.03230	.01260
.902	4.090	.02570	.00620
.902	6.240	.01780	.00280
.902	-1.160	.03280	.03230

RUN NO. 363/ 0 RN/L = 6.63

MACH	BETA	CHEO	CHEI
1.048	-6.680	.01190	.08580
1.048	-4.490	.00790	.07990
1.048	-2.300	.00290	.08070
1.048	-1.150	.00000	.08190
1.048	1.980	.00000	.06180
1.048	4.130	.00100	.05590
1.048	6.300	.00020	.04470
1.048	-1.150	-.00050	.08110

RUN NO. 362/ 0 RN/L = 6.75

MACH	BETA	CHEO	CHEI
1.253	-6.780	-.01210	.11500
1.253	-4.550	-.00500	.12070
1.253	-2.330	.00000	.12200
1.253	-1.150	.00170	.11900
1.253	2.020	.00640	.10830
1.253	4.210	.01090	.09880
1.253	6.410	.01150	.08850
1.253	-1.140	.00090	.11530

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 74-OTS Z13 (RIK229) (16 APR 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 360/ 0 RN/L = 7.03

MACH	BETA	CHEO	CHEI
1.963	-6.780	-.04720	.02030
1.963	-4.540	-.04590	.02380
1.963	-2.340	-.04450	.02530
1.963	-1.150	-.04720	.03060
1.963	2.040	-.04380	.03530
1.963	4.230	-.03990	.03890
1.963	6.470	-.03560	.04560
1.963	-1.140	-.04790	.03140

MSFC TWT610 (1A-71) 74-OTS Z12

(RIK229) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 383/ 0 RN/L = 6.24

MACH	ALPHA	CHEO	CHEI
.902	-7.280	.03940	-.01810
.902	-4.980	.03950	-.01570
.902	-2.740	.03620	-.01400
.902	-1.510	.03690	-.01190
.902	1.710	.04240	-.00870
.902	3.950	.04430	-.00960
.902	6.260	.04180	-.01050
.902	-4.490	.03580	-.01380

RUN NO. 384/ 0 RN/L = 6.47

MACH	ALPHA	CHEO	CHEI
.996	-7.310	.06800	.00370
.996	-4.980	.06700	.00480
.996	-2.690	.06880	.00390
.996	-1.410	.07190	.00410
.996	1.820	.06540	.00340
.996	4.080	.05380	.00320
.996	6.380	.03770	-.00160
.996	-1.400	.07020	.00290

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1A71 TABULATED SOURCE DATA

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MSFC TWT610 (1A-71) 74-OTS Z12

(RIK229) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 385/ 0 RN/L = 6.57

MACH	ALPHA	CHEO	CHEI
1.050	-7.380	.06680	.00750
1.050	-5.010	.06530	.00690
1.050	-2.700	.06780	.00520
1.050	-.400	.07080	.00420
1.050	1.850	.06120	.00360
1.050	4.110	.04950	.00210
1.050	6.450	.03410	.00000
1.050	-.400	.06870	.00380

RUN NO. 382/ 0 RN/L = 6.67

MACH	ALPHA	CHEO	CHEI
1.251	-7.530	.05430	.06910
1.251	-5.100	.04760	.06900
1.251	-2.710	.04070	.07200
1.251	-.350	.03210	.06970
1.251	1.950	.01830	.07060
1.251	4.240	.00000	.06420
1.251	6.610	-.01650	.05860
1.251	-.350	.02180	.06640

MSFC TWT610 (1A-71) 74-OTS Z14

(RIK230) (16 APR 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 388/ 0 RN/L = 6.29

MACH	ALPHA	CHEO	CHEI
.904	-7.290	.01800	-.00570
.904	-4.980	.01350	-.00830
.904	-2.750	.00980	-.00800
.904	-.510	.01100	-.00520
.904	1.730	.02040	.00000
.904	3.950	.02260	-.00010
.904	6.260	.01900	-.00410
.904	-.500	.01110	-.00450

(RIK230) (16 APR 75)

MSFC TWT610 (1A-71) 74-OTS Z14

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 387/ 0 RN/L = 6.50

MACH	ALPHA	CHEO	CHEI
1.002	-7.320	.02990	.02810
1.002	-4.980	.02770	.02610
1.002	-2.690	.02770	.02340
1.002	-1.420	.02760	.02100
1.002	1.820	.02540	.02060
1.002	4.170	.01660	.01040
1.002	6.300	.01510	.01150
1.002	-1.390	.02660	.02060

RUN NO. 386/ 0 RN/L = 6.57

MACH	ALPHA	CHEO	CHEI
1.048	-7.360	.02900	.03770
1.048	-5.010	.02750	.03370
1.048	-2.700	.02810	.03090
1.048	-1.400	.02910	.02770
1.048	1.840	.02620	.02510
1.048	4.130	.01800	.02050
1.048	6.450	.01600	.02090
1.048	-1.380	.02850	.02690

RUN NO. 389/ 0 RN/L = 6.68

MACH	ALPHA	CHEO	CHEI
1.249	-7.530	.02350	.09260
1.249	-5.110	.01910	.09030
1.249	-2.740	.01620	.08770
1.249	-1.360	.01440	.08680
1.249	1.950	.00580	.08700
1.249	4.240	-.00730	.08240
1.249	6.570	-.02200	.07560
1.249	-1.350	.00790	.08430

ORIGINAL PAGE IS
OF POOR QUALITY

1A71 TABULATED SOURCE DATA

PAGE 190

MSFC TMT610 (1A-71) 77-0.74-TS Z13

(RIK231) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 93/ 0 RN/L = 5.92

MACH	ALPHA	CNM	CBM	CTM
.797	-6.970	-.08720	-.01810	-.00540
.797	-4.770	-.05980	-.01310	.00030
.797	-2.550	-.03540	-.00860	.00530
.797	-.350	-.00610	-.00310	.01190
.797	1.870	.02240	.00220	.01780
.797	4.100	.05230	.00790	.02350
.797	6.350	.08660	.01490	.02810
.797	-.360	-.00530	-.00300	.01220

RUN NO. 92/ 0 RN/L = 6.25

MACH	ALPHA	CNM	CBM	CTM
.903	-7.130	-.08390	-.01690	-.00400
.903	-4.820	-.05490	-.01150	.00130
.903	-2.590	-.02640	-.00650	.00690
.903	-.360	.01150	.00080	.01180
.903	1.870	.05090	.00840	.01640
.903	4.120	.08580	.01510	.02180
.903	6.430	.11470	.02050	.02700
.903	-.360	.01310	.00120	.01200

RUN NO. 91/ 0 RN/L = 6.40

MACH	ALPHA	CNM	CBM	CTM
.952	-7.170	-.07920	-.01500	-.00290
.952	-4.840	-.04840	-.00930	.00250
.952	-2.560	-.01710	-.00350	.00720
.952	-.320	.02130	.00360	.01160
.952	1.920	.05910	.01090	.01580
.952	4.150	.09410	.01750	.02100
.952	6.520	.12510	.02380	.02530
.952	-.330	.02300	.00390	.01180

1A71 TABULATED SOURCE DATA

(RIK231) (07 OCT 75)

MSFC TW7610 (1A-71) 77-0.74-75 Z13

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 90/ 0 RN/L = 6.50

MACH	ALPHA	CNW	CBW	CTW
.998	-7.160	-.08760	-.01950	-.00200
.998	-4.830	-.05530	-.00950	.00310
.998	-2.540	-.02100	-.00330	.00800
.998	-.280	.01640	.00340	.01280
.998	1.980	.05290	.01030	.01740
.998	4.210	.08960	.01730	.02180
.998	6.550	.12230	.02370	.02560
.998	-.280	.01850	.00380	.01290

RUN NO. 89/ 0 RN/L = 5.97

MACH	ALPHA	CNW	CBW	CTW
1.048	-7.230	-.09160	-.01580	-.00190
1.048	-4.880	-.05750	-.00940	.00330
1.048	-2.570	-.02170	-.00310	.00810
1.048	-.280	.01710	.00390	.01320
1.048	1.990	.05400	.01070	.01780
1.048	4.250	.08850	.01740	.02220
1.048	6.600	.12260	.02400	.02570
1.048	-.280	.01870	.00420	.01350

RUN NO. 87/ 0 RN/L = 6.63

MACH	ALPHA	CNW	CBW	CTW
1.104	-7.230	-.08550	-.01460	-.00100
1.104	-4.860	-.05060	-.00810	.00390
1.104	-2.550	-.01340	-.00150	.00890
1.104	-.280	.02340	.00510	.01380
1.104	2.010	.05930	.01190	.01790
1.104	4.280	.09370	.01840	.02170
1.104	6.630	.12550	.02450	.02490
1.104	-.270	.02520	.00540	.01400

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OF FOUR QUALITY

1A71 TABULATED SOURCE DATA

(RIK231) (07 OCT 75)

MSFC TMT610 (1A-71) 77-0,74-TS Z13

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 88/ 0 RN/L = 6.66

MACH	ALPHA	CNH	CBH	CTH
1.150	-7.260	-.08350	-.01420	-.00030
1.150	-4.880	-.04850	-.00760	.00430
1.150	-2.550	-.01150	-.00110	.00930
1.150	-.230	.02480	.00540	.01410
1.150	2.040	.06120	.01220	.01820
1.150	4.300	.09290	.01830	.02170
1.150	6.660	.12170	.02400	.02420
1.150	-.240	.02720	.00580	.01440

RUN NO. 94/ 0 RN/L = 6.68

MACH	ALPHA	CNH	CBH	CTH
1.198	-7.400	-.06700	-.01240	.00180
1.198	-4.970	-.02220	-.00380	.00520
1.198	-2.600	.01830	.00370	.00890
1.198	-.240	.05800	.01110	.01390
1.198	2.070	.09020	.01710	.01820
1.198	4.380	.12350	.02340	.02240
1.198	6.760	.15280	.02910	.02530
1.198	-.230	.06040	.01150	.01430

RUN NO. 95/ 0 RN/L = 6.67

MACH	ALPHA	CNH	CBH	CTH
1.247	-7.420	-.06230	-.01150	.00180
1.247	-4.980	-.02050	-.00350	.00520
1.247	-2.600	.02020	.00400	.00930
1.247	-.230	.05890	.01120	.01400
1.247	2.070	.09250	.01750	.01880
1.247	4.380	.12190	.02310	.02270
1.247	6.750	.15060	.02870	.02530
1.247	-.220	.06210	.01180	.01440

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 77-0.74-TS Z13 (RIK231) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 96/ 0 RN/L = 6.50

MACH	ALPHA	CNW	CBW	CTW
1.456	-7.450	-.05570	-.01070	-.00230
1.456	-5.020	-.02110	-.00420	-.00080
1.456	-2.640	.01690	.00290	.00170
1.456	-.270	.05470	.01020	.00560
1.456	2.070	.08970	.01660	.01010
1.456	4.380	.11950	.02200	.01490
1.456	6.740	.14560	.02690	.01830
1.456	-.250	.05670	.01050	.00580

RUN NO. 105/ 0 RN/L = 7.05

MACH	ALPHA	CNW	CBW	CTW
1.967	-7.430	-.03000	-.00670	-.00210
1.967	-5.030	-.01300	-.00360	-.00140
1.967	-2.650	.00530	-.00020	-.00070
1.967	-.310	.03060	.00430	.00010
1.967	2.040	.05670	.00890	.00130
1.967	4.350	.08490	.01410	.00320
1.967	6.710	.11680	.02020	.00710
1.967	-.280	.03420	.00480	.00050

MSFC TWT610 (1A-71) 77-0.74-TS Z13

(RIK232) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 82/ 0 RN/L = 5.91

MACH	ALPHA	CNW	CBW	CTW
.799	-6.980	-.10110	-.02140	-.00660
.799	-4.770	-.07660	-.01700	-.00040
.799	-2.550	-.05600	-.01330	.00500
.799	-.350	-.02950	-.00840	.01080
.799	1.880	-.00300	-.00340	.01630
.799	4.120	.02520	.00190	.02180
.799	6.330	.05620	.00800	.02630
.799	-.360	-.02950	-.00830	.01070

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 77-0.74-15 213 (R1K232) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
 FLIPDR = 40.000

RUN NO. 83/ 0 RN/L = 6.28

MACH	ALPHA	CNW	CBW	CTW
.902	-7.110	-.09980	-.02040	-.00450
.902	-4.830	-.07300	-.01540	.00100
.902	-2.610	-.04880	-.01110	.00630
.902	-.370	-.01620	-.00510	.01140
.902	1.860	.02030	.00160	.01660
.902	4.110	.05340	.00790	.02200
.902	6.400	.09220	.01530	.02600
.902	-.370	-.01210	-.00410	.01140

RUN NO. 84/ 0 RN/L = 6.49

MACH	ALPHA	CNW	CBW	CTW
1.001	-7.190	-.09770	-.01720	-.00350
1.001	-4.860	-.06670	-.01130	.00180
1.001	-2.540	-.03670	-.00600	.00700
1.001	-.270	-.00040	.00050	.01180
1.001	2.010	.03830	.00760	.01640
1.001	4.260	.07660	.01450	.02150
1.001	6.610	.11310	.02150	.02550
1.001	-.270	.00110	.00080	.01200

RUN NO. 85/ 0 RN/L = 6.57

MACH	ALPHA	CNW	CBW	CTW
1.051	-7.210	-.09820	-.01720	-.00390
1.051	-4.860	-.06690	-.01130	.00130
1.051	-2.560	-.03380	-.00590	.00630
1.051	-.280	-.00200	.00020	.01120
1.051	2.010	.03620	.00720	.01580
1.051	4.250	.07140	.01360	.02070
1.051	6.620	.10930	.02080	.02500
1.051	-.280	-.00020	.00050	.01150

IA71 TABULATED SOURCE DATA

NSFC TWT610 (IA-71) 77-0.74-15 Z13

(RIK232) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
 FLIPDR = 40.000

RUN NO. 86/ 0 RN/L = 6.63

MACH	ALPHA	CNW	CBW	CTW
1.106	-7.230	-.09600	-.01670	-.00380
1.106	-4.870	-.06350	-.01060	.00160
1.106	-2.560	-.03190	-.00500	.00650
1.106	-.280	.00330	.00130	.01110
1.106	2.010	.04330	.00860	.01590
1.106	4.280	.07790	.01480	.02070
1.106	6.630	.11170	.02120	.02440
1.106	-.280	.00340	.00120	.01130

RUN NO. 81/ 0 RN/L = 6.64

MACH	ALPHA	CNW	CBW	CTW
1.250	-7.370	-.07180	-.01330	.00020
1.250	-4.970	-.03090	-.00540	.00360
1.250	-2.590	.01010	.00220	.00820
1.250	-.230	.04910	.00910	.01320
1.250	2.080	.08120	.01480	.01790
1.250	4.390	.11000	.02010	.02140
1.250	6.750	.13650	.02540	.02440
1.250	-.210	.05220	.00960	.01270

RUN NO. 101/ 0 RN/L = 6.49

MACH	ALPHA	CNW	CBW	CTW
1.465	-7.440	-.06400	-.01270	-.00220
1.465	-5.010	-.02820	-.00590	-.00100
1.465	-2.630	.01050	.00130	.00170
1.465	-.260	.05010	.00880	.00560
1.465	2.090	.09530	.01530	.01030
1.465	4.390	.11500	.02070	.01530
1.465	6.750	.14180	.02550	.01910
1.465	-.230	.05210	.00910	.00540

1A71 TABULATED SOURCE DATA

(RIK232) (07 OCT 75)

MSFC THT610 (1A-71) 77-0.74-75 213

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO. 102/ 0 RN/L = 7.06

MACH	ALPHA	CNW	CBW	CTW
1.950	-7.450	-.03840	-.00930	-.00200
1.950	-5.040	-.01910	-.00910	-.00110
1.950	-2.650	-.00040	-.00170	-.00040
1.950	-.310	.02470	.00270	.00040
1.950	2.030	.05110	.00750	.00180
1.950	4.380	.08540	.01370	.00430
1.950	6.760	.12120	.02070	.00970
1.950	-1.290	.02840	.00340	.00090

MSFC THT610 (1A-71) 77-0.74-75 213

(RIK233) (07 OCT 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 20.000

RUN NO. 77/ 0 RN/L = 6.23

MACH	BETA	CNW	CBW	CTW
.904	-6.630	-.00980	-.00340	.00800
.904	-4.470	-.00180	-.00220	.00880
.904	-2.310	.00340	-.00110	.00960
.904	-.160	.00860	.00010	.01060
.904	1.970	.01700	.00170	.01160
.904	4.130	.02520	.00330	.01280
.904	6.280	.03290	.00520	.01350
.904	-.140	.00890	.00030	.01040

RUN NO. 76/ 0 RN/L = 6.53

MACH	BETA	CNW	CBW	CTW
1.052	-6.760	-.00750	-.00010	.00860
1.052	-4.530	.00330	.00150	.00990
1.052	-2.340	.01390	.00330	.01120
1.052	-.160	.01920	.00440	.01230
1.052	2.000	.02780	.00510	.01300
1.052	4.160	.03610	.00800	.01470
1.052	6.380	.05090	.01050	.01660
1.052	-.160	.01850	.00430	.01230

IA71 TABULATED SOURCE DATA

MSFC TWT610 (IA-71) 77-0.74-TS Z13

(RIK233) (07 OCT 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 75/ 0 RN/L = 6.65

MACH	BETA	CNW	CBW	CTW
1.251	-8.840	.01480	.00410	.01160
1.251	-4.570	.02870	.00830	.01180
1.251	-2.360	.04070	.00830	.01240
1.251	-.150	.05200	.01010	.01290
1.251	2.040	.05810	.01120	.01250
1.251	4.270	.06470	.01240	.01210
1.251	6.500	.06940	.01330	.01130
1.251	-.140	.05220	.01010	.01270

RUN NO. 104/ 0 RN/L = 7.05

MACH	BETA	CNW	CBW	CTW
1.962	-6.860	.02410	.00480	.00140
1.962	-4.610	.03060	.00520	.00130
1.962	-2.360	.02970	.00460	.00050
1.962	-.140	.03180	.00460	.00020
1.962	2.080	.02960	.00400	-.00050
1.962	4.300	.03370	.00440	-.00120
1.962	6.560	.03780	.00500	-.00120
1.962	-.130	.03160	.00440	.00030

MSFC TWT610 (IA-71) 77-0.74-TS Z13

(RIK234) (07 OCT 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = 40.000

RUN NO. 78/ 0 RN/L = 6.25

MACH	BETA	CNW	CTW
.907	-6.640	-.02810	.00800
.907	-4.470	-.02190	.00680
.907	-2.310	-.01790	.00980
.907	-.160	-.01630	.01110
.907	1.970	-.00680	.01200
.907	4.140	-.00050	.01320
.907	6.290	.00420	.01420
.907	-.160	-.01530	.01090

1A71 TABULATED SOURCE DATA

MSFC 1A71810 (1A-71) 77-0.74-TS 213 (RIK234) (07 OCT 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPOR = 40.000

RUN NO.	79/ 0	RN/L = 6.52	MACH	BETA	CNW	CTW
			1.049	-6.760	-.02720	.00810
			1.049	-4.520	-.01760	.00940
			1.049	-2.330	-.00820	.01040
			1.049	-.160	-.00250	.01130
			1.049	2.000	.00660	.01210
			1.049	4.190	.01900	.01390
			1.049	6.370	.02680	.01560
			1.049	-.160	-.00150	.01140

RUN NO.	80/ 0	RN/L = 6.64	MACH	BETA	CNW	CTW
			1.252	-6.840	.00850	.01110
			1.252	-4.580	.02170	.01130
			1.252	-2.350	.03240	.01170
			1.252	-.150	.04370	.01220
			1.252	2.060	.04960	.01160
			1.252	4.270	.05490	.01140
			1.252	6.490	.05970	.01090
			1.252	-.150	.04370	.01220

RUN NO.	103/ 0	RN/L = 7.06	MACH	BETA	CNW	CTW
			1.956	-6.860	.01900	.00160
			1.956	-4.610	.02570	.00170
			1.956	-2.360	.02400	.00080
			1.956	-.140	.02590	.00050
			1.956	2.080	.02390	-.00030
			1.956	4.290	.02800	-.00080
			1.956	6.570	.03210	-.00080
			1.956	-.140	.02590	.00050

IA71 TABULATED SOURCE DATA

MSFC TWT610 (IA-71) 77-0.74-TSSTANDOFF FUEL LINE (RIK235) (07 OCT 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
 FLIPDR = .000

RUN NO. 109/ 0 RN/L = 5.27

MACH	BETA	CNW	CBW	CTW
.900	-6.650	.03240	.00600	.00590
.900	-4.470	.04040	.00720	.00690
.900	-2.310	.04400	.00770	.00810
.900	-.160	.04860	.00860	.01000
.900	1.960	.05510	.01000	.01210
.900	4.110	.05940	.01090	.01370
.900	6.280	.06790	.01290	.01530
.900	-.160	.04760	.00850	.01020

RUN NO. 110/ 0 RN/L = 5.58

MACH	BETA	CNW	CBW	CTW
1.047	-6.740	.00430	.00140	.01070
1.047	-4.510	.01380	.00300	.01190
1.047	-2.330	.02400	.00490	.01340
1.047	-.160	.03060	.00640	.01490
1.047	1.990	.04260	.00870	.01630
1.047	4.160	.05450	.01100	.01820
1.047	6.360	.06540	.01340	.02000
1.047	-.160	.03230	.00670	.01490

RUN NO. 111/ 0 RN/L = 6.70

MACH	BETA	CNW	CBW	CTW
1.248	-6.830	.02140	.00520	.01260
1.248	-4.570	.03500	.00760	.01270
1.248	-2.350	.04770	.01000	.01270
1.248	-.150	.06160	.01240	.01320
1.248	2.040	.07040	.01410	.01280
1.248	4.250	.07960	.01570	.01170
1.248	6.490	.08700	.01700	.01140
1.248	-.140	.06320	.01260	.01260

IA71 TABULATED SOURCE DATA

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MSFC TWT610 (1A-71) 77-0.74-TS Z10

(RIK236) (07 OCT 75)

PARAMETRIC DATA

ALPHA = .000 ORBINC = .000
FLIPDR = .000

RUN NO. 6/ 0 RN/L = 6.61

MACH	BETA	CNW	CBW	CTW
1.050	-6.420	.00660	.00190	.01010
1.050	-4.310	.01730	.00360	.01180
1.050	-2.230	.02670	.00530	.01330
1.050	-1.170	.03200	.00660	.01460
1.050	1.870	.04360	.00880	.01580
1.050	3.930	.05580	.01120	.01750
1.050	6.030	.06630	.01350	.01910
1.050	-1.170	.03320	.00680	.01490

MSFC TWT610 (1A-71) 77-0.74-TS Z10

(RIK237) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 70/ 0 RN/L = 6.34

MACH	ALPHA	CNW	CBW	CTW
.949	-7.170	-.08880	-.01660	-.00690
.949	-4.850	-.06180	-.01150	-.00150
.949	-2.580	-.03430	-.00650	.00350
.949	-.340	-.00430	-.00100	.00830
.949	1.900	.03140	.00580	.01360
.949	4.140	.06220	.01160	.01850
.949	6.470	.09360	.01790	.02360
.949	-.320	.00120	.00020	.00950

RUN NO. 71/ 0 RN/L = 6.61

MACH	ALPHA	CNW	CBW	CTW
1.149	-7.340	-.06620	-.01590	-.00590
1.149	-4.930	-.05020	-.00850	-.00090
1.149	-2.570	-.00840	-.00090	.00490
1.149	-.240	.03100	.00620	.01060
1.145	2.070	.06610	.01280	.01520
1.149	4.380	.09850	.01880	.01970
1.149	6.740	.12810	.02480	.02310
1.149	-.230	.03400	.00670	.01110

1A71 TABULATED SOURCE DATA

MSFC TWT610 (1A-71) 77-0.74-TS Z10 (RIK237) (07 OCT 75)

PARAMETRIC DATA

BETA = .000 ORBINC = .000
FLIPDR = 20.000

RUN NO. 69/ 0 RN/L = 6.64

MACH	ALPHA	CNW	CBW	CTW
1.197	-7.390	-.07490	-.01400	-.00270
1.197	-4.960	-.03130	-.00560	.00120
1.197	-2.580	.01050	.00220	.00550
1.197	-.230	.04970	.00940	.01040
1.197	2.070	.08180	.01530	.01530
1.197	4.380	.11150	.02090	.01950
1.197	6.760	.13920	.02640	.02280
1.197	-.220	.05140	.00970	.01090

RUN NO. 108/ 0 RN/L = 6.49

MACH	ALPHA	CNW	CBW	CTW
1.462	-7.460	-.05830	-.01130	-.00370
1.462	-5.020	-.02300	-.00460	-.00210
1.462	-2.640	.01390	.00220	.00060
1.462	-.280	.05120	.00940	.00460
1.462	2.080	.08670	.01580	.00940
1.462	4.380	.11710	.02130	.01440
1.462	6.740	.14220	.02810	.01810
1.462	-.250	.05370	.00980	.00480